

PF-0356-3 DIV

<110> Lal, Preeti
Hillman, Jennifer L.
Bandman, Olga
Shah, Purvi
Au-Young, Janice
Yue, Henry
Guegler, Karl J.
Corley, Neil C.

<120> HUMAN REGULATORY MOLECULES

<130> PF-0356-3 DIV

<140> To Be Assigned

<141> Herewith

<160> 98

<170> PERL Program

<210> 1

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 000133

<400> 1

Met	Thr	Asn	Glu	Glu	Pro	Leu	Pro	Lys	Lys	Val	Arg	Leu	Ser	Glu
1				5					10					15
Thr	Asp	Phe	Lys	Val	Met	Ala	Arg	Asp	Glu	Leu	Ile	Leu	Arg	Trp
				20					25					30
Lys	Gln	Tyr	Glu	Ala	Tyr	Val	Gln	Ala	Leu	Glu	Gly	Lys	Tyr	Thr
				35					40					45
Asp	Leu	Asn	Ser	Asn	Asp	Val	Thr	Gly	Leu	Arg	Glu	Ser	Glu	Glu
				50					55					60
Lys	Leu	Lys	Gln	Gln	Gln	Gln	Glu	Ser	Ala	Arg	Arg	Glu	Asn	Ile
				65					70					75
Leu	Val	Met	Arg	Leu	Ala	Thr	Lys	Glu	Gln	Glu	Met	Gln	Glu	Cys
				80					85					90
Thr	Thr	Gln	Ile	Gln	Tyr	Leu	Lys	Gln	Val	Gln	Gln	Pro	Ser	Val
				95					100					105
Ala	Gln	Leu	Arg	Ser	Thr	Met	Val	Asp	Pro	Ala	Ile	Asn	Leu	Phe
				110					115					120
Phe	Leu	Lys	Met	Lys	Gly	Glu	Leu	Glu	Gln	Thr	Lys	Asp	Lys	Leu
				125					130					135
Glu	Gln	Ala	Gln	Asn	Glu	Leu	Ser	Ala	Trp	Lys	Phe	Thr	Pro	Asp
				140					145					150

Arg

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<210> 2
<211> 185
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 001762

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Met Leu Thr Leu Ala Ser Lys Leu Lys Arg Asp Asp Gly Leu Lys
1 5 10 15
Gly Ser Arg Thr Ala Ala Thr Ala Ser Asp Ser Thr Arg Arg Val
20 25 30
Ser Val Arg Asp Lys Leu Leu Val Lys Glu Val Ala Glu Leu Glu
35 40 45
Ala Asn Leu Pro Cys Thr Cys Lys Val His Phe Pro Asp Pro Asn
50 55 60
Lys Leu His Cys Phe Gln Leu Thr Val Thr Pro Asp Glu Gly Tyr
65 70 75
Tyr Gln Gly Gly Lys Phe Gln Phe Glu Thr Glu Val Pro Asp Ala
80 85 90
Tyr Asn Met Val Pro Pro Lys Val Lys Cys Leu Thr Lys Ile Trp
95 100 105
His Pro Asn Ile Thr Glu Thr Gly Glu Ile Cys Leu Ser Leu Leu
110 115 120
Arg Glu His Ser Ile Asp Gly Thr Gly Trp Ala Pro Thr Arg Thr
125 130 135
Leu Lys Asp Val Val Trp Gly Leu Asn Ser Leu Phe Thr Asp Leu
140 145 150
Leu Asn Phe Asp Asp Pro Leu Asn Ile Glu Ala Ala Glu His His
155 160 165
Leu Arg Asp Lys Glu Asp Phe Arg Asn Lys Val Asp Asp Tyr Ile
170 175 180
Lys Arg Tyr Ala Arg
185

<210> 3
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 001847

<400> 3
Met Gly Lys Val Asn Val Ala Lys Leu Arg Tyr Met Ser Arg Asp

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1	5	10	15
Asp Phe Arg Val	Leu Thr Ala Val	Glu Met Gly Met	Lys Asn His
	20	25	30
Glu Ile Val Pro	Gly Ser Leu Ile	Ala Ser Ile Ala	Ser Leu Lys
	35	40	45
His Gly Gly Cys	Asn Lys Val Leu	Arg Glu Leu Val	Lys His
	50	55	

<210> 4
 <211> 338
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<220>
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 <223> Incyte ID No: 009337

<400> 4

Met Leu Glu Thr	Phe Gly His Leu Val	Ser Val Gly Trp Glu Thr
1	5	10
Thr Leu Glu Asn	Lys Glu Leu Ala Pro	Asn Ser Asp Ile Pro Glu
	20	25
Glu Glu Pro Ala	Pro Ser Leu Lys Val	Gln Glu Ser Ser Arg Asp
	35	40
Cys Ala Leu Ser	Ser Thr Leu Glu Asp	Thr Leu Gln Gly Gly Val
	50	55
Gln Glu Val Gln	Asp Thr Val Leu Lys	Gln Met Glu Ser Ala Gln
	65	70
Glu Lys Asp Leu	Pro Gln Lys Lys His	Phe Asp Asn Arg Glu Ser
	80	85
Gln Ala Asn Ser	Gly Ala Leu Asp Thr	Asn Gln Val Ser Leu Gln
	95	100
Lys Ile Asp Asn	Pro Glu Ser Gln Ala	Asn Ser Gly Ala Leu Asp
	110	115
Thr Asn Gln Val	Leu Leu His Lys Ile	Pro Pro Arg Lys Arg Leu
	125	130
Arg Lys Arg Asp	Ser Gln Val Lys Ser	Met Lys His Asn Ser Arg
	140	145
Val Lys Ile His	Gln Lys Ser Cys Glu	Arg Gln Lys Ala Lys Glu
	155	160
Gly Asn Gly Cys	Arg Lys Thr Phe Ser	Arg Ser Thr Lys Gln Ile
	170	175
Thr Phe Ile Arg	Ile His Lys Gly Ser	Gln Val Cys Arg Cys Ser
	185	190
Glu Cys Gly Lys	Ile Phe Arg Asn Pro	Arg Tyr Phe Ser Val His
	200	205
Lys Lys Ile His	Thr Gly Glu Arg Pro	Tyr Val Cys Gln Asp Cys
	215	220
Gly Lys Gly Phe	Val Gln Ser Ser Ser	Leu Thr Gln His Gln Arg
	230	235
		240

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Val	His	Ser	Gly	Glu	Arg	Pro	Phe	Glu	Cys	Gln	Glu	Cys	Gly	Arg
				245					250					255
Thr	Phe	Asn	Asp	Arg	Ser	Ala	Ile	Ser	Gln	His	Leu	Arg	Thr	His
				260					265					270
Thr	Gly	Ala	Lys	Pro	Tyr	Lys	Cys	Gln	Asp	Cys	Gly	Lys	Ala	Phe
				275					280					285
Arg	Gln	Ser	Ser	His	Leu	Ile	Arg	His	Gln	Arg	Thr	His	Thr	Gly
				290					295					300
Glu	Arg	Pro	Tyr	Ala	Cys	Asn	Lys	Cys	Gly	Lys	Ala	Phe	Thr	Gln
				305					310					315
Ser	Ser	His	Leu	Ile	Gly	His	Gln	Arg	Thr	His	Asn	Arg	Thr	Lys
				320					325					330
Arg	Lys	Lys	Lys	Gln	Pro	Thr	Ser							
				335										

<210> 5

<211> 456

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 009476

<400> 5

Met	Lys	Ile	Glu	Glu	Val	Lys	Ser	Thr	Thr	Lys	Thr	Gln	Arg	Ile
1				5					10					15
Ala	Ser	His	Ser	His	Val	Lys	Gly	Leu	Gly	Leu	Asp	Glu	Ser	Gly
				20					25					30
Leu	Ala	Lys	Gln	Ala	Ala	Ser	Gly	Leu	Val	Gly	Gln	Glu	Asn	Ala
				35					40					45
Arg	Glu	Ala	Cys	Gly	Val	Ile	Val	Glu	Leu	Ile	Glu	Ser	Lys	Lys
				50					55					60
Met	Ala	Gly	Arg	Ala	Val	Leu	Leu	Ala	Gly	Pro	Pro	Gly	Thr	Gly
				65					70					75
Lys	Thr	Ala	Leu	Ala	Leu	Ala	Ile	Ala	Gln	Glu	Leu	Gly	Ser	Lys
				80					85					90
Val	Pro	Phe	Cys	Pro	Met	Val	Gly	Ser	Glu	Val	Tyr	Ser	Thr	Glu
				95					100					105
Ile	Lys	Lys	Thr	Glu	Val	Leu	Met	Glu	Asn	Phe	Arg	Arg	Ala	Ile
				110					115					120
Gly	Leu	Arg	Ile	Lys	Glu	Thr	Lys	Glu	Val	Tyr	Glu	Gly	Glu	Val
				125					130					135
Thr	Glu	Leu	Thr	Pro	Cys	Glu	Thr	Glu	Asn	Pro	Met	Gly	Gly	Tyr
				140					145					150
Gly	Lys	Thr	Ile	Ser	His	Val	Ile	Ile	Gly	Leu	Lys	Thr	Ala	Lys
				155					160					165
Gly	Thr	Lys	Gln	Leu	Lys	Leu	Asp	Pro	Ser	Ile	Phe	Glu	Ser	Leu
				170					175					180
Gln	Lys	Glu	Arg	Val	Glu	Ala	Gly	Asp	Val	Ile	Tyr	Ile	Glu	Ala

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	185	190	195
Asn Ser Gly Ala Val Lys Arg Gln Gly Arg Cys Asp Thr Tyr Ala			
	200	205	210
Thr Glu Phe Asp Leu Glu Ala Glu Glu Tyr Val Pro Leu Pro Lys			
	215	220	225
Gly Asp Val His Lys Lys Lys Glu Ile Ile Gln Asp Val Thr Leu			
	230	235	240
His Asp Leu Asp Val Ala Asn Ala Arg Pro Gln Gly Gly Gln Asp			
	245	250	255
Ile Leu Ser Met Met Gly Gln Leu Met Lys Pro Lys Lys Thr Glu			
	260	265	270
Ile Thr Asp Lys Leu Arg Gly Glu Ile Asn Lys Val Val Asn Lys			
	275	280	285
Tyr Ile Asp Gln Gly Ile Ala Glu Leu Val Pro Gly Val Leu Phe			
	290	295	300
Val Asp Glu Val His Met Leu Asp Ile Glu Cys Phe Thr Tyr Leu			
	305	310	315
His Arg Ala Leu Glu Ser Ser Ile Ala Pro Ile Val Ile Phe Ala			
	320	325	330
Ser Asn Arg Gly Asn Cys Val Ile Arg Gly Thr Glu Asp Ile Thr			
	335	340	345
Ser Pro His Gly Ile Pro Leu Asp Leu Leu Asp Arg Val Met Ile			
	350	355	360
Ile Arg Thr Met Leu Tyr Thr Pro Gln Glu Met Lys Gln Ile Ile			
	365	370	375
Lys Ile Arg Ala Gln Thr Glu Gly Ile Asn Ile Ser Glu Glu Ala			
	380	385	390
Leu Asn His Leu Gly Glu Ile Gly Thr Lys Thr Thr Leu Arg Tyr			
	395	400	405
Ser Val Gln Leu Leu Thr Pro Ala Asn Leu Leu Ala Lys Ile Asn			
	410	415	420
Gly Lys Asp Ser Ile Glu Lys Glu His Val Glu Glu Ile Ser Glu			
	425	430	435
Leu Phe Tyr Asp Ala Lys Ser Ser Ala Lys Ile Leu Ala Asp Gln			
	440	445	450
Gln Asp Lys Tyr Met Lys			
	455		

<210> 6

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 010370

<400> 6

Met Val Leu Trp Leu Lys Gly Val Thr Phe Asn Val Thr Thr Val

1

5

10

15

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Asp	Thr	Lys	Arg	Arg	Thr	Glu	Thr	Val	Gln	Lys	Leu	Cys	Pro	Gly	
				20					25					30	
Gly	Gln	Leu	Pro	Phe	Leu	Leu	Tyr	Gly	Thr	Glu	Val	His	Thr	Asp	
				35					40					45	
Thr	Asn	Lys	Ile	Glu	Glu	Phe	Leu	Glu	Ala	Val	Leu	Cys	Pro	Pro	
				50					55					60	
Arg	Tyr	Pro	Lys	Leu	Ala	Ala	Leu	Asn	Pro	Glu	Ser	Asn	Thr	Ala	
				65					70					75	
Gly	Leu	Asp	Ile	Phe	Ala	Lys	Phe	Ser	Ala	Tyr	Ile	Lys	Asn	Ser	
				80					85					90	
Asn	Pro	Ala	Leu	Asn	Asp	Asn	Leu	Glu	Lys	Gly	Leu	Leu	Lys	Ala	
				95					100					105	
Leu	Lys	Val	Leu	Asp	Asn	Tyr	Leu	Thr	Ser	Pro	Leu	Pro	Glu	Glu	
				110					115					120	
Val	Asp	Glu	Thr	Ser	Ala	Glu	Asp	Glu	Gly	Val	Ser	Gln	Arg	Lys	
				125					130					135	
Phe	Leu	Asp	Gly	Asn	Glu	Leu	Thr	Leu	Ala	Asp	Cys	Asn	Leu	Leu	
				140					145					150	
Pro	Lys	Leu	His	Ile	Val	Gln	Val	Val	Cys	Lys	Lys	Tyr	Arg	Gly	
				155					160					165	
Phe	Thr	Ile	Pro	Glu	Ala	Phe	Arg	Gly	Val	His	Arg	Tyr	Leu	Ser	
				170					175					180	
Asn	Ala	Tyr	Ala	Arg	Glu	Glu	Phe	Ala	Ser	Thr	Cys	Pro	Asp	Asp	
				185					190					195	
Glu	Glu	Ile	Glu	Leu	Ala	Tyr	Glu	Gln	Val	Ala	Lys	Ala	Leu	Lys	
				200					205					210	

<210> 7
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 030137

<400> 7

Met	Leu	Gly	Gln	Leu	Leu	Pro	His	Thr	Ala	Arg	Gly	Leu	Gly	Ala	
1				5					10					15	
Ala	Glu	Met	Pro	Gly	Gln	Gly	Pro	Gly	Ser	Asp	Trp	Thr	Glu	Arg	
				20					25					30	
Ser	Ser	Ser	Ala	Glu	Pro	Pro	Ala	Val	Ala	Gly	Thr	Glu	Gly	Gly	
				35					40					45	
Gly	Gly	Gly	Ser	Ala	Gly	Tyr	Ser	Cys	Tyr	Gln	Asn	Ser	Lys	Gly	
				50					55					60	
Ser	Asp	Arg	Ile	Lys	Asp	Gly	Tyr	Lys	Val	Asn	Ser	His	Ile	Ala	
				65					70					75	
Lys	Leu	Gln	Glu	Leu	Trp	Lys	Thr	Pro	Gln	Asn	Gln	Thr	Ile	His	
				80					85					90	

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Leu	Ser	Lys	Ser	Met	Met	Glu	Ala	Ser	Phe	Phe	Lys	His	Pro	Asp	
				95					100					105	
Leu	Thr	Thr	Gly	Gln	Lys	Arg	Tyr	Leu	Cys	Ser	Ile	Ala	Lys	Ile	
				110					115					120	
Tyr	Asn	Ala	Asn	Tyr	Leu	Lys	Met	Leu	Met	Lys	Arg	Gln	Tyr	Met	
				125					130					135	
His	Val	Leu	Gln	His	Ser	Ser	Gln	Lys	Pro	Gly	Val	Leu	Thr	His	
				140					145					150	
His	Arg	Ser	Arg	Leu	Ser	Ser	Arg	Tyr	Ser	Gln	Lys	Gln	His	Tyr	
				155					160					165	
Pro	Cys	Thr	Thr	Trp	Arg	His	Gln	Leu	Glu	Arg	Glu	Asp	Ser	Gly	
				170					175					180	
Ser	Ser	Asp	Ile	Ala	Ala	Ala	Ser	Ala	Pro	Glu	Met	Leu	Ile	Gln	
				185					190					195	
His	Ser	Leu	Trp	Arg	Pro	Val	Arg	Asn	Lys	Glu	Gly	Ile	Lys	Thr	
				200					205					210	
Gly	Tyr	Ala	Ser	Lys	Thr	Arg	Cys	Lys	Ser	Leu	Lys	Ile	Phe	Arg	
				215					220					225	
Arg	Pro	Arg	Lys	Leu	Phe	Met	Gln	Thr	Val	Ser	Ser	Asp	Asp	Ser	
				230					235					240	
Glu	Ser	His	Met	Ser	Gly	Glu	Lys	Lys	Gly	Arg	Gly	Phe	Thr	Thr	
				245					250					255	

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 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 077180

<400> 8

Met	Ala	Leu	Ala	Met	Leu	Val	Leu	Val	Val	Ser	Pro	Trp	Ser	Ala	
1				5					10					15	
Ala	Arg	Gly	Val	Leu	Arg	Asn	Tyr	Trp	Glu	Arg	Leu	Leu	Arg	Lys	
				20					25					30	
Leu	Pro	Gln	Ser	Arg	Pro	Gly	Phe	Pro	Ser	Pro	Pro	Trp	Gly	Pro	
				35					40					45	
Ala	Leu	Ala	Val	Gln	Gly	Pro	Ala	Met	Phe	Thr	Glu	Pro	Ala	Asn	
				50					55					60	
Asp	Thr	Ser	Gly	Ser	Lys	Glu	Asn	Ser	Ser	Leu	Leu	Asp	Ser	Ile	
				65					70					75	
Phe	Trp	Met	Ala	Ala	Pro	Lys	Asn	Arg	Arg	Thr	Ile	Glu	Val	Asn	
				80					85					90	
Arg	Cys	Arg	Arg	Arg	Asn	Pro	Gln	Lys	Leu	Ile	Lys	Val	Lys	Asn	
				95					100					105	
Asn	Ile	Asp	Val	Cys	Pro	Glu	Cys	Gly	His	Leu	Lys	Gln	Lys	His	
				110					115					120	

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Val	Leu	Cys	Ala	Tyr	Cys	Tyr	Glu	Lys	Val	Cys	Lys	Glu	Thr	Ala	
				125					130					135	
Glu	Ile	Arg	Arg	Gln	Ile	Gly	Lys	Gln	Glu	Gly	Gly	Pro	Phe	Lys	
				140					145					150	
Ala	Pro	Thr	Ile	Glu	Thr	Val	Val	Leu	Tyr	Thr	Gly	Glu	Thr	Pro	
				155					160					165	
Ser	Glu	Gln	Asp	Gln	Gly	Lys	Arg	Ile	Ile	Glu	Arg	Asp	Arg	Lys	
				170					175					180	
Arg	Pro	Ser	Trp	Phe	Thr	Gln	Asn								
				185											

<210> 9

<211> 531

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 098974

<400> 9

Met	Ala	Pro	Thr	Ile	Gln	Thr	Gln	Ala	Gln	Arg	Glu	Asp	Gly	His	
1				5					10					15	
Arg	Pro	Asn	Ser	His	Arg	Thr	Leu	Pro	Glu	Arg	Ser	Gly	Val	Val	
				20					25					30	
Cys	Arg	Val	Lys	Tyr	Cys	Asn	Ser	Leu	Pro	Asp	Ile	Pro	Phe	Asp	
				35					40					45	
Pro	Lys	Phe	Ile	Thr	Tyr	Pro	Phe	Asp	Gln	Asn	Arg	Phe	Val	Gln	
				50					55					60	
Tyr	Lys	Ala	Thr	Ser	Leu	Glu	Lys	Gln	His	Lys	His	Asp	Leu	Leu	
				65					70					75	
Thr	Glu	Pro	Asp	Leu	Gly	Val	Thr	Ile	Asp	Leu	Ile	Asn	Pro	Asp	
				80					85					90	
Thr	Tyr	Arg	Ile	Asp	Pro	Asn	Val	Leu	Leu	Asp	Pro	Ala	Asp	Glu	
				95					100					105	
Lys	Leu	Leu	Glu	Glu	Glu	Ile	Gln	Ala	Pro	Thr	Ser	Ser	Lys	Arg	
				110					115					120	
Ser	Gln	Gln	His	Ala	Lys	Val	Val	Pro	Trp	Met	Arg	Lys	Thr	Glu	
				125					130					135	
Tyr	Ile	Ser	Thr	Glu	Phe	Asn	Arg	Tyr	Gly	Ile	Ser	Asn	Glu	Lys	
				140					145					150	
Pro	Glu	Val	Lys	Ile	Gly	Val	Ser	Val	Lys	Gln	Gln	Phe	Thr	Glu	
				155					160					165	
Glu	Glu	Ile	Tyr	Lys	Asp	Arg	Asp	Ser	Gln	Ile	Thr	Ala	Ile	Glu	
				170					175					180	
Lys	Thr	Phe	Glu	Asp	Ala	Gln	Lys	Ser	Ile	Ser	Gln	His	Tyr	Ser	
				185					190					195	
Lys	Pro	Arg	Val	Thr	Pro	Val	Glu	Val	Met	Pro	Val	Phe	Pro	Asp	
				200					205					210	
Phe	Lys	Met	Trp	Ile	Asn	Pro	Cys	Ala	Gln	Val	Ile	Phe	Asp	Ser	

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	215		220		225
Asp Pro Ala Pro	Lys Asp Thr Ser Gly	Ala Ala Leu Glu Met			
	230		235		240
Met Ser Gln Ala	Met Ile Arg Gly Met	Met Asp Glu Glu Gly Asn			
	245		250		255
Gln Phe Val Ala	Tyr Phe Leu Pro Val	Glu Glu Thr Leu Lys Lys			
	260		265		270
Arg Lys Arg Asp	Gln Glu Glu Glu Met	Asp Tyr Ala Pro Asp Asp			
	275		280		285
Val Tyr Asp Tyr	Lys Ile Ala Arg Glu	Tyr Asn Trp Asn Val Lys			
	290		295		300
Asn Lys Ala Ser	Lys Gly Tyr Glu Glu	Asn Tyr Phe Phe Ile Phe			
	305		310		315
Arg Glu Gly Asp	Gly Val Tyr Tyr Asn	Glu Leu Glu Thr Arg Val			
	320		325		330
Arg Leu Ser Lys	Arg Arg Ala Lys Ala	Gly Val Gln Ser Gly Thr			
	335		340		345
Asn Ala Leu Leu	Val Val Lys His Arg	Asp Met Asn Glu Lys Glu			
	350		355		360
Leu Glu Ala Gln	Glu Ala Arg Lys Ala	Gln Leu Glu Asn His Glu			
	365		370		375
Pro Glu Glu Glu	Glu Glu Glu Glu Met	Glu Thr Glu Glu Lys Glu			
	380		385		390
Ala Gly Gly Ser	Asp Glu Glu Gln Glu	Lys Gly Ser Ser Ser Glu			
	395		400		405
Lys Glu Gly Ser	Glu Asp Glu His Ser	Gly Ser Glu Ser Glu Arg			
	410		415		420
Glu Glu Gly Asp	Arg Asp Glu Ala Ser	Asp Lys Ser Gly Ser Gly			
	425		430		435
Glu Asp Glu Ser	Ser Glu Asp Glu Ala	Arg Ala Ala Arg Asp Lys			
	440		445		450
Glu Glu Ile Phe	Gly Ser Asp Ala Asp	Ser Glu Asp Asp Ala Asp			
	455		460		465
Ser Asp Asp Glu	Asp Arg Gly Gln Ala	Gln Gly Gly Ser Asp Asn			
	470		475		480
Asp Ser Asp Ser	Gly Ser Asn Gly Gly	Gly Gln Arg Ser Arg Ser			
	485		490		495
His Ser Arg Ser	Ala Ser Pro Phe Pro	Ser Gly Ser Glu His Ser			
	500		505		510
Ala Gln Glu Asp	Gly Ser Glu Ala Ala	Ala Ser Asp Ser Ser Glu			
	515		520		525
Ala Asp Ser Asp	Ser Asp				
	530				

<210> 10

<211> 348

<212> PRT

<213> Homo sapiens

<220>

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<221> misc_feature

<223> Incyte ID No: 118160

<400> 10

Met	Gly	Gln	Glu	Glu	Glu	Leu	Leu	Arg	Ile	Ala	Lys	Lys	Leu	Glu
1				5					10					15
Lys	Met	Val	Ala	Arg	Lys	Asn	Thr	Glu	Gly	Ala	Leu	Asp	Leu	Leu
				20					25					30
Lys	Lys	Leu	His	Ser	Cys	Gln	Met	Ser	Ile	Gln	Leu	Leu	Gln	Thr
				35					40					45
Thr	Arg	Ile	Gly	Val	Ala	Val	Asn	Gly	Val	Arg	Lys	His	Cys	Ser
				50					55					60
Asp	Lys	Glu	Val	Val	Ser	Leu	Ala	Lys	Val	Leu	Ile	Lys	Asn	Trp
				65					70					75
Lys	Arg	Leu	Leu	Asp	Ser	Pro	Gly	Pro	Pro	Lys	Gly	Glu	Lys	Gly
				80					85					90
Glu	Glu	Arg	Glu	Lys	Ala	Lys	Lys	Lys	Glu	Lys	Gly	Leu	Glu	Cys
				95					100					105
Ser	Asp	Trp	Lys	Pro	Glu	Ala	Gly	Leu	Ser	Pro	Pro	Arg	Lys	Lys
				110					115					120
Arg	Glu	Asp	Pro	Lys	Thr	Arg	Arg	Asp	Ser	Val	Asp	Ser	Lys	Ser
				125					130					135
Ser	Ala	Ser	Ser	Ser	Pro	Lys	Arg	Pro	Ser	Val	Glu	Arg	Ser	Asn
				140					145					150
Ser	Ser	Lys	Ser	Lys	Ala	Glu	Ser	Pro	Lys	Thr	Pro	Ser	Ser	Pro
				155					160					165
Leu	Thr	Pro	Thr	Phe	Ala	Ser	Ser	Met	Cys	Leu	Leu	Ala	Pro	Cys
				170					175					180
Tyr	Leu	Thr	Gly	Asp	Ser	Val	Arg	Asp	Lys	Cys	Val	Glu	Met	Leu
				185					190					195
Ser	Ala	Ala	Leu	Lys	Ala	Asp	Asp	Asp	Tyr	Lys	Asp	Tyr	Gly	Val
				200					205					210
Asn	Cys	Asp	Lys	Met	Ala	Ser	Glu	Ile	Glu	Asp	His	Ile	Tyr	Gln
				215					220					225
Glu	Leu	Lys	Ser	Thr	Asp	Met	Lys	Tyr	Arg	Asn	Arg	Val	Arg	Ser
				230					235					240
Arg	Ile	Ser	Asn	Leu	Lys	Asp	Pro	Arg	Asn	Pro	Gly	Leu	Arg	Arg
				245					250					255
Asn	Val	Leu	Ser	Gly	Ala	Ile	Ser	Ala	Gly	Leu	Ile	Ala	Lys	Met
				260					265					270
Thr	Ala	Glu	Glu	Met	Ala	Ser	Asp	Glu	Leu	Arg	Glu	Leu	Arg	Asn
				275					280					285
Ala	Met	Thr	Gln	Glu	Ala	Ile	Arg	Glu	His	Gln	Met	Ala	Lys	Thr
				290					295					300
Gly	Gly	Thr	Thr	Thr	Asp	Leu	Phe	Gln	Cys	Ser	Lys	Cys	Lys	Lys
				305					310					315
Lys	Asn	Cys	Thr	Tyr	Asn	Gln	Val	Gln	Thr	Arg	Ser	Ala	Asp	Glu
				320					325					330
Pro	Met	Thr	Thr	Phe	Val	Leu	Cys	Asn	Glu	Cys	Gly	Asn	Arg	Trp
				335					340					345

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Lys Phe Cys

<210> 11
<211> 393
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 140516

<400> 11
Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser
1 5 10 15
Pro Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala
20 25 30
Ser Lys Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val
35 40 45
Gln Asp Arg Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val
50 55 60
Val Leu Glu His Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg
65 70 75
His Phe Ala Gly Asp Val Leu Gly Tyr Val Thr Pro Trp Asn Ser
80 85 90
His Gly Tyr Asp Val Thr Lys Val Phe Gly Ser Lys Phe Thr Gln
95 100 105
Ile Ser Pro Val Trp Leu Gln Leu Lys Arg Arg Gly Arg Glu Met
110 115 120
Phe Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp Met Arg
125 130 135
Ala Val Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg Leu
145 150
Leu Phe Glu As Tyr Asp Asp Phe Arg Asn Val Leu Asp
160 165
Ser Glu Asp Gln Ile Glu Glu Leu Ser Lys Thr Val Val Gln Val
170 175 180
Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu Val Trp Asn
185 190 195
Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met Leu Thr
200 205 210
His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu Leu
215 220 225
Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
230 235 240
Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
245 250 255
Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly
260 265 270
Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu

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	275		280		285
Asp Pro Lys Ser	Lys Trp Arg Ser Lys	Ile Leu Leu Gly Leu	Asn		
	290		295		300
Phe Tyr Gly Met	Asp Tyr Ala Thr Ser	Lys Asp Ala Arg Glu	Pro		
	305		310		315
Val Val Gly Ala	Arg Tyr Ile Gln Thr	Leu Lys Asp His Arg	Pro		
	320		325		330
Arg Met Val Trp	Asp Ser Gln Ala Ser	Glu His Phe Phe Glu	Tyr		
	335		340		345
Lys Lys Ser Arg	Ser Gly Arg His Val	Val Phe Tyr Pro Thr	Leu		
	350		355		360
Lys Ser Leu Gln	Val Arg Leu Glu Leu	Ala Arg Glu Leu Gly	Val		
	365		370		375
Gly Val Ser Ile	Trp Glu Leu Gly Gln	Gly Leu Asp Tyr Phe	Tyr		
	380		385		390
Asp Leu Leu					

<210> 12
<211> 320
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 207452

<400> 12

Met Val Gly Tyr	Asp Pro Lys Pro	Asp Gly Arg Asn	Asn Thr Lys
1	5	10	15
Phe Gln Val Ala	Val Ala Gly Ser	Val Ser Gly Leu	Val Thr Arg
	20	25	30
Ala Leu Ile Ser	Pro Phe Asp Val	Ile Lys Ile Arg	Phe Gln Leu
	35	40	45
Gln His Glu Arg	Leu Ser Arg Ser	Asp Pro Ser Ala	Lys Tyr His
	50	55	60
Gly Ile Leu Gln	Ala Ser Arg Gln	Ile Leu Gln Glu	Glu Gly Pro
	65	70	75
Thr Ala Phe Trp	Lys Gly His Val	Pro Ala Gln Ile	Leu Ser Ile
	80	85	90
Gly Tyr Gly Ala	Val Gln Phe Leu	Ser Phe Glu Met	Leu Thr Glu
	95	100	105
Leu Val His Arg	Gly Ser Val Tyr	Asp Ala Arg Glu	Phe Ser Val
	110	115	120
His Phe Val Cys	Gly Gly Leu Ala	Ala Cys Met Ala	Thr Leu Thr
	125	130	135
Val His Pro Val	Asp Val Leu Arg	Thr Arg Phe Ala	Ala Gln Gly
	140	145	150
Glu Pro Lys Val	Tyr Asn Thr Leu	Arg His Ala Val	Gly Thr Met
	155	160	165

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Tyr	Arg	Ser	Glu	Gly	Pro	Gln	Val	Phe	Tyr	Lys	Gly	Leu	Ala	Pro	
				170					175					180	
Thr	Leu	Ile	Ala	Ile	Phe	Pro	Tyr	Ala	Gly	Leu	Gln	Phe	Ser	Cys	
				185					190					195	
Tyr	Ser	Ser	Leu	Lys	His	Leu	Tyr	Lys	Trp	Ala	Ile	Pro	Ala	Glu	
				200					205					210	
Gly	Lys	Lys	Asn	Glu	Asn	Leu	Gln	Asn	Leu	Leu	Cys	Gly	Ser	Gly	
				215					220					225	
Ala	Gly	Val	Ile	Ser	Lys	Thr	Leu	Thr	Tyr	Pro	Leu	Asp	Leu	Phe	
				230					235					240	
Lys	Lys	Arg	Leu	Gln	Val	Gly	Gly	Phe	Glu	His	Ala	Arg	Ala	Ala	
				245					250					255	
Phe	Gly	Gln	Val	Arg	Arg	Tyr	Lys	Gly	Leu	Met	Asp	Cys	Ala	Lys	
				260					265					270	
Gln	Val	Leu	Gln	Lys	Glu	Gly	Ala	Leu	Gly	Phe	Phe	Lys	Gly	Leu	
				275					280					285	
Ser	Pro	Ser	Leu	Leu	Lys	Ala	Ala	Leu	Ser	Thr	Gly	Phe	Met	Phe	
				290					295					300	
Phe	Ser	Tyr	Glu	Phe	Phe	Cys	Asn	Val	Phe	His	Cys	Met	Asn	Arg	
				305					310					315	
Thr	Ala	Ser	Gln	Arg											
				320											

<210> 13

<211> 343

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 208836

<400> 13

Met	Ala	Glu	Gln	Leu	Ser	Pro	Gly	Lys	Ala	Val	Asp	Gln	Val	Cys	
1				5					10					15	
Thr	Phe	Leu	Phe	Lys	Lys	Pro	Gly	Arg	Lys	Gly	Ala	Ala	Gly	Arg	
				20					25					30	
Arg	Lys	Arg	Pro	Ala	Cys	Asp	Pro	Glu	Pro	Gly	Glu	Ser	Gly	Ser	
				35					40					45	
Ser	Ser	Asp	Glu	Gly	Cys	Thr	Val	Val	Arg	Pro	Glu	Lys	Lys	Arg	
				50					55					60	
Val	Thr	His	Asn	Pro	Met	Met	Gln	Lys	Thr	Arg	Asp	Ser	Gly	Lys	
				65					70					75	
Gln	Lys	Ala	Ala	Tyr	Gly	Asp	Leu	Ser	Ser	Glu	Glu	Glu	Glu	Glu	
				80					85					90	
Asn	Glu	Pro	Glu	Ser	Leu	Gly	Val	Val	Tyr	Lys	Ser	Thr	Arg	Ser	
				95					100					105	
Ala	Lys	Pro	Val	Gly	Pro	Glu	Asp	Met	Gly	Ala	Thr	Ala	Val	Tyr	
				110					115					120	
Glu	Leu	Asp	Thr	Glu	Lys	Glu	Arg	Asp	Ala	Gln	Ala	Ile	Phe	Glu	

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	125		130		135
Arg Ser Gln Lys	Ile Gln Glu Glu Leu	Arg Gly Lys Glu Asp Asp			
	140		145		150
Lys Ile Tyr Arg	Gly Ile Asn Asn Tyr	Gln Lys Tyr Met Lys Pro			
	155		160		165
Lys Asp Thr Ser	Met Gly Asn Ala Ser	Ser Gly Met Val Arg Lys			
	170		175		180
Gly Pro Ile Arg	Ala Pro Glu His Leu	Arg Ala Thr Val Arg Trp			
	185		190		195
Asp Tyr Gln Pro	Asp Ile Cys Lys Asp	Tyr Lys Glu Thr Gly Phe			
	200		205		210
Cys Gly Phe Gly	Asp Ser Cys Lys Phe	Leu His Asp Arg Ser Asp			
	215		220		225
Tyr Lys His Gly	Trp Gln Ile Glu Arg	Glu Leu Asp Glu Gly Arg			
	230		235		240
Tyr Gly Val Tyr	Glu Asp Glu Asn Tyr	Glu Val Gly Ser Asp Asp			
	245		250		255
Glu Glu Ile Pro	Phe Lys Cys Phe Ile	Cys Arg Gln Ser Phe Gln			
	260		265		270
Asn Pro Val Val	Thr Lys Cys Arg His	Tyr Phe Cys Glu Ser Cys			
	275		280		285
Ala Leu Gln His	Phe Arg Thr Thr Pro	Arg Cys Tyr Val Cys Asp			
	290		295		300
Gln Gln Thr Asn	Gly Val Phe Asn Pro	Ala Lys Glu Leu Ile Ala			
	305		310		315
Lys Leu Glu Lys	His Arg Ala Thr Gly	Glu Gly Gly Ala Ser Asp			
	320		325		330
Leu Pro Glu Asp	Pro Asp Glu Asp Ala	Ile Pro Ile Thr			
	335		340		

<210> 14

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 569710

<400> 14

Met Ser Ala Gln Ser Val Glu Glu Asp Ser Ile Leu Ile Ile Pro					
1	5		10		15
Thr Pro Asp Glu Glu Glu Lys Ile Leu Arg Val Lys Leu Glu Glu					
	20		25		30
Asp Pro Asp Gly Glu Glu Gly Ser Ser Ile Pro Trp Asn His Leu					
	35		40		45
Pro Asp Pro Glu Ile Phe Arg Gln Arg Phe Arg Gln Phe Gly Tyr					
	50		55		60
Gln Asp Ser Pro Gly Pro Arg Glu Ala Val Ser Gln Leu Arg Glu					
	65		70		75

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Leu	Cys	Arg	Leu	Trp	Leu	Arg	Pro	Glu	Thr	His	Thr	Lys	Glu	Gln	80	85	90
Ile	Leu	Glu	Leu	Val	Val	Leu	Glu	Gln	Phe	Val	Ala	Ile	Leu	Pro	95	100	105
Lys	Glu	Leu	Gln	Thr	Trp	Val	Arg	Asp	His	His	Pro	Glu	Asn	Gly	110	115	120
Glu	Glu	Ala	Val	Thr	Val	Leu	Glu	Asp	Leu	Glu	Ser	Glu	Leu	Asp	125	130	135
Asp	Pro	Gly	Gln	Pro	Val	Ser	Leu	Arg	Arg	Arg	Lys	Arg	Glu	Val	140	145	150
Leu	Val	Glu	Asp	Met	Val	Ser	Gln	Glu	Glu	Ala	Gln	Gly	Leu	Pro	155	160	165
Ser	Ser	Glu	Leu	Asp	Ala	Val	Glu	Asn	Gln	Leu	Lys	Trp	Ala	Ser	170	175	180
Trp	Glu	Leu	His	Ser	Leu	Arg	His	Cys	Asp	Asp	Asp	Gly	Arg	Thr	185	190	195
Glu	Asn	Gly	Ala	Leu	Ala	Pro	Lys	Gln	Glu	Leu	Pro	Ser	Ala	Leu	200	205	210
Glu	Ser	His	Glu	Val	Pro	Gly	Thr	Leu	Ser	Met	Gly	Val	Pro	Gln	215	220	225
Ile	Phe	Lys	Tyr	Gly	Glu	Thr	Cys	Phe	Pro	Lys	Gly	Arg	Phe	Glu	230	235	240
Arg	Lys	Arg	Asn	Pro	Ser	Arg	Lys	Lys	Gln	His	Ile	Cys	Asp	Glu	245	250	255
Cys	Gly	Lys	His	Phe	Ser	Gln	Gly	Ser	Ala	Leu	Ile	Leu	His	Gln	260	265	270
Arg	Ile	His	Ser	Gly	Glu	Lys	Pro	Tyr	Gly	Cys	Val	Glu	Cys	Gly	275	280	285
Lys	Ala	Phe	Ser	Arg	Ser	Ser	Ile	Leu	Val	Gln	His	Gln	Arg	Val	290	295	300
His	Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Leu	Glu	Cys	Gly	Lys	Ala	305	310	315
Phe	Ser	Gln	Asn	Ser	Gly	Leu	Ile	Asn	His	Gln	Arg	Ile	His	Thr	320	325	330
Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Val	Gln	Cys	Gly	Lys	Ser	Tyr	Ser	335	340	345
Gln	Ser	Ser	Asn	Leu	Phe	Arg	His	Gln	Arg	Arg	His	Asn	Ala	Glu	350	355	360
Lys	Leu	Leu	Asn	Val	Val	Lys	Val								365		

<210> 15

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 606742

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<400> 15

Met	Glu	Gly	Pro	Arg	Arg	Gly	Pro	Glu	Val	Gly	Gly	Phe	Cys	Lys	
1				5					10					15	
Tyr	Arg	Leu	Leu	Arg	Val	Ser	Arg	Ala	Leu	Cys	His	Asp	Thr	Ser	
				20					25					30	
Leu	Gly	Leu	Thr	Trp	Leu	Arg	Thr	Cys	Ser	Val	Arg	Gly	Phe	Val	
				35					40					45	
Arg	Thr	Leu	Pro	Phe	Cys	Leu	Lys	Leu	Lys	Ala	Lys	Glu	Asn	Asp	
				50					55					60	
Arg	Arg	Leu	Arg	Thr	Glu	Leu	Thr	Leu	Ala	Pro	Gly	Trp	Glu	Ala	
				65					70					75	
Ala	Ala	Leu	Leu	Asp	Ala	Thr	Tyr	Cys	Lys	Trp	Pro	Glu	Tyr	Gln	
				80					85					90	
Arg	Gly	Gly	Phe	His	Gly	Gln	Met	His	Ser	Arg	Cys	Leu	Pro	Leu	
				95					100					105	
His	Leu	Asp	His	Leu	Val	Val	Phe	Lys	Phe	Leu	Val	Pro	Glu	Ala	
				110					115					120	
Lys	Ser	Thr	Thr	Cys	Leu	Leu	Val	Thr	Cys	Leu	Pro	Ala	Val	Val	
				125					130					135	
Val	Asp	Val	Leu	Ala	Gly	Arg	Phe	Gly	Ile	Ser	His	Gln	Ser	Phe	
				140					145					150	
Cys	Thr	Val	Leu	Val	Ser	Ser	Ile								
				155											

<210> 16

<211> 334

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 611135

<400> 16

Met	Ala	Thr	Arg	Gln	Arg	Glu	Ser	Ser	Ile	Thr	Ser	Cys	Cys	Ser	
1				5					10					15	
Thr	Ser	Ser	Cys	Asp	Ala	Asp	Asp	Glu	Gly	Val	Arg	Gly	Thr	Cys	
				20					25					30	
Glu	Asp	Ala	Ser	Leu	Cys	Lys	Arg	Phe	Ala	Val	Ser	Ile	Gly	Tyr	
				35					40					45	
Trp	His	Asp	Pro	Tyr	Ile	Gln	His	Phe	Val	Arg	Leu	Ser	Lys	Glu	
				50					55					60	
Arg	Lys	Ala	Pro	Glu	Ile	Asn	Arg	Gly	Tyr	Phe	Ala	Arg	Val	His	
				65					70					75	
Gly	Val	Ser	Gln	Leu	Ile	Lys	Ala	Phe	Leu	Arg	Lys	Thr	Glu	Cys	
				80					85					90	
His	Cys	Gln	Ile	Val	Asn	Leu	Gly	Ala	Gly	Met	Asp	Thr	Thr	Phe	
				95					100					105	
Trp	Arg	Leu	Lys	Asp	Glu	Asp	Leu	Leu	Pro	Ser	Lys	Tyr	Phe	Glu	
				110					115					120	

[illegible]

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<210> 17
<211> 488
<212> PRT
<213> Homo sapiens
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<400> 17															
Met	Ala	Ser	Thr	Ile	Thr	Gly	Ser	Gln	Asp	Cys	Ile	Val	Asn	His	
1				5					10					15	
Arg	Gly	Glu	Val	Asp	Gly	Glu	Pro	Glu	Leu	Asp	Ile	Ser	Pro	Cys	
				20					25					30	
Gln	Gln	Trp	Gly	Glu	Ala	Ser	Ser	Pro	Ile	Ser	Arg	Asn	Arg	Asp	
				35					40					45	
Ser	Val	Met	Thr	Leu	Gln	Ser	Gly	Cys	Phe	Glu	Asn	Ile	Glu	Ser	
				50					55					60	
Glu	Thr	Tyr	Leu	Pro	Leu	Lys	Val	Ser	Ser	Gln	Ile	Asp	Thr	Gln	

				65					70					75
Asp	Ser	Ser	Val	Lys	Phe	Cys	Lys	Asn	Glu	Pro	Gln	Asp	His	Gln
				80					85					90
Glu	Ser	Arg	Arg	Leu	Phe	Val	Met	Glu	Glu	Ser	Thr	Glu	Arg	Lys
				95					100					105
Val	Ile	Lys	Gly	Glu	Ser	Cys	Ser	Glu	Asn	Leu	Gln	Val	Lys	Leu
				110					115					120
Val	Ser	Asp	Gly	Gln	Glu	Leu	Ala	Ser	Pro	Leu	Leu	Asn	Gly	Glu
				125					130					135
Ala	Thr	Cys	Gln	Asn	Gly	Gln	Leu	Lys	Glu	Ser	Leu	Asp	Pro	Ile
				140					145					150
Asp	Cys	Asn	Cys	Lys	Asp	Ile	His	Gly	Trp	Lys	Ser	Gln	Val	Val
				155					160					165
Ser	Cys	Ser	Gln	Gln	Arg	Gly	His	Thr	Glu	Glu	Lys	Pro	Cys	Asp
				170					175					180
His	Asn	Asn	Cys	Gly	Lys	Ile	Leu	Asn	Thr	Ser	Pro	Asp	Gly	His
				185					190					195
Pro	Tyr	Glu	Lys	Ile	His	Thr	Ala	Glu	Lys	Gln	Tyr	Glu	Gly	Ser
				200					205					210
Gln	Cys	Gly	Lys	Asn	Phe	Ser	Gln	Ser	Ser	Glu	Leu	Leu	Leu	His
				215					220					225
Gln	Arg	Asp	His	Thr	Glu	Glu	Lys	Pro	Tyr	Lys	Cys	Glu	Gln	Cys
				230					235					240
Gly	Lys	Gly	Phe	Thr	Arg	Ser	Ser	Ser	Leu	Leu	Ile	His	Gln	Ala
				245					250					255
Val	His	Thr	Asp	Glu	Lys	Pro	Tyr	Lys	Cys	Asp	Lys	Cys	Gly	Lys
				260					265					270
Gly	Phe	Thr	Arg	Ser	Ser	Ser	Leu	Leu	Ile	His	His	Ala	Val	His
				275					280					285
Thr	Gly	Glu	Lys	Pro	Tyr	Lys	Cys	Asp	Lys	Cys	Gly	Lys	Gly	Phe
				290					295					300
Ser	Gln	Ser	Ser	Lys	Leu	His	Ile	His	Gln	Arg	Val	His	Thr	Gly
				305					310					315
Glu	Lys	Pro	Tyr	Glu	Cys	Glu	Glu	Cys	Gly	Met	Ser	Phe	Ser	Gln
				320					325					330
Arg	Ser	Asn	Leu	His	Ile	His	Gln	Arg	Val	His	Thr	Gly	Glu	Arg
				335					340					345
Pro	Tyr	Lys	Cys	Gly	Glu	Cys	Gly	Lys	Gly	Phe	Ser	Gln	Ser	Ser
				350					355					360
Asn	Leu	His	Ile	His	Arg	Cys	Ile	His	Thr	Gly	Glu	Lys	Pro	Tyr
				365					370					375
Gln	Cys	Tyr	Glu	Cys	Gly	Lys	Gly	Phe	Ser	Gln	Ser	Ser	Asp	Leu
				380					385					390
Arg	Ile	His	Leu	Arg	Val	His	Thr	Gly	Glu	Lys	Pro	Tyr	His	Cys
				395					400					405
Gly	Lys	Cys	Gly	Lys	Gly	Phe	Ser	Gln	Ser	Ser	Lys	Leu	Leu	Ile
				410					415					420
His	Gln	Arg	Val	His	Thr	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Ser	Lys
				425					430					435
Cys	Gly	Lys	Gly	Phe	Ser	Gln	Ser	Ser	Asn	Leu	His	Ile	His	Gln

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	440		445		450									
Arg	Val	His	Lys	Arg	Asp	Pro	Arg	Ala	His	Pro	Gly	Leu	His	Ser
				455					460					465
Ala	His	Thr	Val	Asn	Thr	Val	Lys	Tyr	Leu	Val	Ser	Leu	Leu	Leu
				470					475					480
Tyr	Ile	Leu	Gln	Arg	Arg	Glu	Met							
				485										

<210> 18

<211> 255

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 691768

<220>

<221> unsure

<222> 216, 218, 230, 233, 246, 250

<223> unknown or other

<400> 18

Met	Gly	Arg	Asn	Lys	Lys	Lys	Lys	Arg	Asp	Gly	Asp	Asp	Arg	Arg
1				5					10					15
Pro	Arg	Leu	Val	Leu	Ser	Phe	Asp	Glu	Glu	Lys	Arg	Arg	Glu	Tyr
				20					25					30
Leu	Thr	Gly	Phe	His	Lys	Arg	Lys	Val	Glu	Arg	Lys	Lys	Ala	Ala
				35					40					45
Ile	Glu	Glu	Ile	Lys	Gln	Arg	Leu	Lys	Glu	Glu	Gln	Arg	Lys	Leu
				50					55					60
Arg	Glu	Glu	Arg	His	Gln	Glu	Tyr	Leu	Lys	Met	Leu	Ala	Glu	Arg
				65					70					75
Glu	Glu	Ala	Leu	Glu	Glu	Ala	Asp	Glu	Leu	Asp	Arg	Leu	Val	Thr
				80					85					90
Ala	Lys	Thr	Glu	Ser	Val	Gln	Tyr	Asp	His	Pro	Asn	His	Thr	Val
				95					100					105
Thr	Val	Thr	Thr	Ile	Ser	Asp	Leu	Asp	Leu	Ser	Gly	Ala	Arg	Leu
				110					115					120
Leu	Gly	Leu	Thr	Pro	Pro	Glu	Gly	Gly	Ala	Gly	Asp	Arg	Ser	Glu
				125					130					135
Glu	Glu	Ala	Ser	Ser	Thr	Glu	Lys	Pro	Thr	Lys	Ala	Leu	Pro	Arg
				140					145					150
Lys	Ser	Arg	Asp	Pro	Leu	Leu	Ser	Gln	Arg	Ile	Ser	Ser	Leu	Thr
				155					160					165
Ala	Ser	Leu	His	Ala	His	Ser	Arg	Lys	Lys	Val	Lys	Arg	Lys	His
				170					175					180
Ser	Arg	Arg	Ala	Gln	Asp	Ser	Lys	Lys	Pro	Pro	Lys	Gly	Pro	Ser
				185					190					195
Tyr	Gln	Gln	Arg	Pro	Ser	Gly	Ala	Val	Phe	Thr	Gly	Lys	Ala	Pro

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	200		205		210									
Ala	Gln	Arg	Gly	Asn	Xaa	Arg	Xaa	Glu	Asn	Glu	Ala	Gly	Cys	Pro
	215								220					225
His	Ser	Lys	Ala	Xaa	Arg	Gly	Xaa	Cys	Ser	Leu	Gly	Ser	Ala	Leu
	230								235					240
Ala	Val	Pro	Leu	Leu	Xaa	Pro	Ala	Leu	Xaa	Leu	Lys	Val	Leu	Pro
	245								250					255

<210> 19

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 724157

<400> 19

Met	Ala	Asp	Gln	Asp	Pro	Ala	Gly	Ile	Ser	Pro	Leu	Gln	Gln	Met
1				5					10					15
Val	Ala	Ser	Gly	Thr	Gly	Ala	Val	Val	Thr	Ser	Leu	Phe	Met	Thr
				20					25					30
Pro	Leu	Asp	Val	Val	Lys	Val	Arg	Leu	Gln	Ser	Gln	Arg	Pro	Ser
				35					40					45
Met	Ala	Ser	Glu	Leu	Met	Pro	Ser	Ser	Arg	Leu	Trp	Ser	Leu	Ser
				50					55					60
Tyr	Thr	Lys	Trp	Lys	Cys	Leu	Leu	Tyr	Cys	Asn	Gly	Val	Leu	Glu
				65					70					75
Pro	Leu	Tyr	Leu	Cys	Pro	Asn	Gly	Ala	Arg	Cys	Ala	Thr	Trp	Phe
				80					85					90
Gln	Asp	Pro	Thr	Arg	Phe	Thr	Gly	Thr	Met	Asp	Ala	Phe	Val	Lys
				95					100					105
Ile	Val	Arg	His	Glu	Gly	Thr	Arg	Thr	Leu	Trp	Ser	Gly	Leu	Pro
				110					115					120
Ala	Thr	Leu	Val	Met	Thr	Val	Pro	Ala	Thr	Ala	Ile	Tyr	Phe	Thr
				125					130					135
Ala	Tyr	Asp	Gln	Leu	Lys	Ala	Phe	Leu	Cys	Gly	Arg	Ala	Leu	Thr
				140					145					150
Ser	Asp	Leu	Tyr	Ala	Pro	Met	Val	Ala	Gly	Ala	Leu	Ala	Arg	Leu
				155					160					165
Gly	Thr	Val	Thr	Val	Ile	Ser	Pro	Leu	Glu	Leu	Met	Arg	Thr	Lys
				170					175					180
Leu	Gln	Ala	Gln	His	Val	Ser	Tyr	Arg	Glu	Leu	Gly	Ala	Cys	Val
				185					190					195
Arg	Thr	Ala	Val	Ala	Gln	Gly	Gly	Trp	Arg	Ser	Leu	Trp	Leu	Gly
				200					205					210
Trp	Gly	Pro	Thr	Ala	Leu	Arg	Asp	Val	Pro	Phe	Ser	Ala	Leu	Tyr
				215					220					225
Trp	Phe	Asn	Tyr	Glu	Leu	Val	Lys	Ser	Trp	Leu	Asn	Gly	Leu	Arg

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	230		235		240
Pro Lys Asp Gln Thr	Ser Val Gly Met	Ser Phe Val Ala Gly Gly			
	245		250		255
Ile Ser Gly Thr Val	Ala Ala Val Leu Thr	Leu Pro Phe Asp Val			
	260		265		270
Val Lys Thr Gln Arg	Gln Val Ala Leu Gly	Ala Met Glu Ala Val			
	275		280		285
Arg Val Asn Pro Leu	His Val Asp Ser Thr	Trp Leu Leu Leu Arg			
	290		295		300
Arg Ile Arg Ala Glu	Ser Gly Thr Lys Gly	Leu Phe Ala Gly Phe			
	305		310		315
Leu Pro Arg Ile Ile	Lys Ala Ala Pro Ser	Cys Ala Ile Met Ile			
	320		325		330
Ser Thr Tyr Glu Phe	Gly Lys Ser Phe Phe	Gln Arg Leu Asn Gln			
	335		340		345
Asp Arg Leu Leu Gly	Gly				
	350				

<210> 20
 <211> 535
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 864683

<400>	20
Met Ser Glu Gly Glu Ser Gln Thr Val Leu Ser Ser Gly Ser Asp	
1	5 10 15
Pro Lys Val Glu Ser Ser Ser Ser Ala Pro Gly Leu Thr Ser Val	
	20 25 30
Ser Pro Pro Val Thr Ser Thr Thr Ser Ala Ala Ser Pro Glu Glu	
	35 40 45
Glu Glu Glu Ser Glu Asp Glu Ser Glu Ile Leu Glu Glu Ser Pro	
	50 55 60
Cys Gly Arg Trp Gln Lys Arg Arg Glu Glu Val Asn Gln Arg Asn	
	65 70 75
Val Pro Gly Ile Asp Ser Ala Tyr Leu Ala Met Asp Thr Glu Glu	
	80 85 90
Gly Val Glu Val Val Trp Asn Glu Val Gln Phe Ser Glu Arg Lys	
	95 100 105
Asn Tyr Lys Leu Gln Glu Glu Lys Val Arg Ala Val Phe Asp Asn	
	110 115 120
Leu Ile Gln Leu Glu His Leu Asn Ile Val Lys Phe His Lys Tyr	
	125 130 135
Trp Ala Asp Ile Lys Glu Asn Lys Ala Arg Val Ile Phe Ile Thr	
	140 145 150
Glu Tyr Met Ser Ser Gly Ser Leu Lys Gln Phe Leu Lys Lys Thr	
	155 160 165

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Lys	Lys	Asn	His	Lys	Thr	Met	Asn	Glu	Lys	Ala	Trp	Lys	Arg	Trp
				170					175					180
Cys	Thr	Gln	Ile	Leu	Ser	Ala	Leu	Ser	Tyr	Leu	His	Ser	Cys	Asp
				185					190					195
Pro	Pro	Ile	Ile	His	Gly	Asn	Leu	Thr	Cys	Asp	Thr	Ile	Phe	Ile
				200					205					210
Gln	His	Asn	Gly	Leu	Ile	Lys	Ile	Gly	Ser	Val	Ala	Pro	Asp	Thr
				215					220					225
Ile	Asn	Asn	His	Val	Lys	Thr	Cys	Arg	Glu	Glu	Gln	Lys	Asn	Leu
				230					235					240
His	Phe	Phe	Ala	Pro	Glu	Tyr	Gly	Glu	Val	Thr	Asn	Val	Thr	Thr
				245					250					255
Ala	Val	Asp	Ile	Tyr	Ser	Phe	Gly	Met	Cys	Ala	Leu	Glu	Met	Ala
				260					265					270
Val	Leu	Glu	Ile	Gln	Gly	Asn	Gly	Glu	Ser	Ser	Tyr	Val	Pro	Gln
				275					280					285
Glu	Ala	Ile	Ser	Ser	Ala	Ile	Gln	Leu	Leu	Glu	Asp	Pro	Leu	Gln
				290					295					300
Arg	Glu	Phe	Ile	Gln	Lys	Cys	Leu	Gln	Ser	Glu	Pro	Ala	Arg	Arg
				305					310					315
Pro	Thr	Ala	Arg	Glu	Leu	Leu	Phe	His	Pro	Ala	Leu	Phe	Glu	Val
				320					325					330
Pro	Ser	Leu	Lys	Leu	Leu	Ala	Ala	His	Cys	Ile	Val	Gly	His	Gln
				335					340					345
His	Met	Ile	Pro	Glu	Asn	Ala	Leu	Glu	Glu	Ile	Thr	Lys	Asn	Met
				350					355					360
Asp	Thr	Ser	Ala	Val	Leu	Ala	Glu	Ile	Pro	Ala	Gly	Pro	Gly	Arg
				365					370					375
Glu	Pro	Val	Gln	Thr	Leu	Tyr	Ser	Gln	Ser	Pro	Ala	Leu	Glu	Leu
				380					385					390
Asp	Lys	Phe	Leu	Glu	Asp	Val	Arg	Asn	Gly	Ile	Tyr	Pro	Leu	Thr
				395					400					405
Ala	Phe	Gly	Leu	Pro	Arg	Pro	Gln	Gln	Pro	Gln	Gln	Glu	Glu	Val
				410					415					420
Thr	Ser	Pro	Val	Val	Pro	Pro	Ser	Val	Lys	Thr	Pro	Thr	Pro	Glu
				425					430					435
Pro	Ala	Glu	Val	Glu	Thr	Arg	Lys	Val	Val	Leu	Met	Gln	Cys	Asn
				440					445					450
Ile	Glu	Ser	Val	Glu	Glu	Gly	Val	Lys	His	His	Leu	Thr	Leu	Leu
				455					460					465
Leu	Lys	Leu	Glu	Asp	Lys	Leu	Asn	Arg	His	Leu	Ser	Cys	Asp	Leu
				470					475					480
Met	Pro	Asn	Glu	Asn	Ile	Pro	Glu	Leu	Ala	Ala	Glu	Leu	Val	Gln
				485					490					495
Leu	Gly	Phe	Ile	Ser	Glu	Ala	Asp	Gln	Ser	Arg	Leu	Thr	Ser	Leu
				500					505					510
Leu	Glu	Glu	Thr	Leu	Asn	Lys	Phe	Asn	Phe	Ala	Arg	Asn	Ser	Thr
				515					520					525
Leu	Asn	Ser	Ala	Ala	Val	Thr	Val	Ser	Ser					
				530					535					

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<210> 21
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 933353

<400> 21
Met Ala Ala Thr Ala Leu Leu Glu Ala Gly Leu Ala Arg Val Leu
1 5 10 15
Phe Tyr Pro Thr Leu Leu Tyr Thr Leu Phe Arg Gly Lys Val Pro
20 25 30
Gly Arg Ala His Arg Asp Trp Tyr His Arg Ile Asp Pro Thr Val
35 40 45
Leu Leu Gly Ala Leu Pro Leu Arg Ser Leu Thr Arg Gln Leu Val
50 55 60
Gln Asp Glu Asn Val Arg Gly Val Ile Thr Met Asn Glu Glu Tyr
65 70 75
Glu Thr Arg Phe Leu Cys Asn Ser Ser Gln Glu Trp Lys Arg Leu
80 85 90
Gly Val Glu Gln Leu Arg Leu Ser Thr Val Asp Met Thr Gly Ile
95 100 105
Pro Thr Leu Asp Asn Leu Gln Lys Gly Val Gln Phe Ala Leu Lys
110 115 120
Tyr Gln Ser Leu Gly Gln Cys Val Tyr Val His Cys Lys Ala Gly
125 130 135
Arg Ser Arg Ser Ala Thr Met Val Ala Ala Tyr Leu Ile Gln Val
140 145 150
His Lys Trp Ser Pro Glu Glu Ala Val Arg Ala Ile Ala Lys Ile
155 160 165
Arg Ser Tyr Ile His Ile Arg Pro Gly Gln Leu Asp Val Leu Lys
170 175 180
Glu Phe His Lys Gln Ile Thr Ala Arg Ala Thr Lys Asp Gly Thr
185 190 195
Phe Val Ile Ser Lys Thr
200

<210> 22
<211> 239
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1404643

<400> 22
Met Ala Tyr Gln Ser Leu Arg Leu Glu Tyr Leu Gln Ile Pro Pro

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1	5	10	15
Val Ser Arg Ala Tyr Thr Thr Ala Cys Val Leu Thr Thr Ala Ala	20	25	30
Val Gln Leu Glu Leu Ile Thr Pro Phe Gln Leu Tyr Phe Asn Pro	35	40	45
Glu Leu Ile Phe Lys His Phe Gln Ile Trp Arg Leu Ile Thr Asn	50	55	60
Phe Leu Phe Phe Gly Pro Val Gly Phe Asn Phe Leu Phe Asn Met	65	70	75
Ile Phe Leu Tyr Arg Tyr Cys Arg Met Leu Glu Glu Gly Ser Phe	80	85	90
Arg Gly Arg Thr Ala Asp Phe Val Phe Met Phe Leu Phe Gly Gly	95	100	105
Phe Leu Met Thr Leu Phe Gly Leu Phe Val Ser Leu Val Phe Leu	110	115	120
Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val Trp Ser Arg Arg	125	130	135
Asn Pro Tyr Val Arg Met Asn Phe Phe Gly Leu Leu Asn Phe Gln	140	145	150
Ala Pro Phe Leu Pro Trp Val Leu Met Gly Phe Ser Leu Leu Leu	155	160	165
Gly Asn Ser Ile Ile Val Asp Leu Leu Gly Ile Ala Val Gly His	170	175	180
Ile Tyr Phe Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly	185	190	195
Ile Arg Ile Leu Lys Thr Pro Ser Ile Leu Lys Ala Ile Phe Asp	200	205	210
Thr Pro Asp Glu Asp Pro Asn Tyr Asn Pro Leu Pro Glu Glu Arg	215	220	225
Pro Gly Gly Phe Ala Trp Gly Glu Gly Gln Arg Leu Gly Gly	230	235	

<210> 23

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1561587

<400> 23

Met Met Arg Thr Gln Cys Leu Leu Gly Leu Arg Thr Phe Val Ala	5	10	15
Phe Ala Ala Lys Leu Trp Ser Phe Phe Ile Tyr Leu Leu Arg Arg	20	25	30
Gln Ile Arg Thr Val Ile Gln Tyr Gln Thr Val Arg Tyr Asp Ile	35	40	45
Leu Pro Leu Ser Pro Val Ser Arg Asn Arg Leu Ala Gln Val Lys	50	55	60

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Arg Lys Ile Leu Val Leu Asp Leu Asp Glu Thr Leu Ile His Ser
65 70 75
His His Asp Gly Val Leu Arg Pro Thr Val Arg Pro Gly Thr Pro
80 85 90
Pro Asp Phe Ile Leu Lys Val Val Ile Asp Lys His Pro Val Arg
95 100 105
Phe Phe Val His Lys Arg Pro His Val Asp Phe Phe Leu Glu Val
110 115 120
Val Ser Gln Trp Tyr Glu Leu Val Val Phe Thr Ala Ser Met Glu
125 130 135
Ile Tyr Gly Ser Ala Val Ala Asp Lys Leu Asp Asn Ser Arg Ser
140 145 150
Ile Leu Lys Arg Arg Tyr Tyr Arg Gln His Cys Thr Leu Glu Leu
155 160 165
Gly Ser Tyr Ile Lys Asp Leu Ser Val Val His Ser Asp Leu Ser
170 175 180
Ser Ile Val Ile Leu Asp Asn Ser Pro Gly Ala Tyr Arg Ser His
185 190 195
Pro Asp Asn Ala Ile Pro Ile Lys Ser Trp Phe Ser Asp Pro Ser
200 205 210
Asp Thr Ala Leu Leu Asn Leu Leu Pro Met Leu Asp Ala Leu Arg
215 220 225
Phe Thr Ala Asp Val Arg Ser Val Leu Ser Arg Asn Leu His Gln
230 235 240
His Arg Leu Trp

<210> 24
<211> 431
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1568361

<220>
<221> unsure
<222> 218
<223> unknown or other

<400> 24
Met Ser Ser Val Glu Glu Asp Asp Tyr Asp Thr Leu Thr Asp Ile
1 5 10 15
Asp Ser Asp Lys Asn Val Ile Arg Thr Lys Gln Tyr Leu Tyr Val
20 25 30
Ala Asp Leu Ala Arg Lys Asp Lys Arg Val Leu Arg Lys Lys Tyr
35 40 45
Gln Ile Tyr Phe Trp Asn Ile Ala Thr Ile Ala Val Phe Tyr Ala
50 55 60

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Leu	Pro	Val	Val	Gln	Leu	Val	Ile	Thr	Tyr	Gln	Thr	Val	Val	Asn	
				65					70					75	
Val	Thr	Gly	Asn	Gln	Asp	Ile	Cys	Tyr	Tyr	Asn	Phe	Leu	Cys	Ala	
				80					85					90	
His	Pro	Leu	Gly	Asn	Leu	Ser	Ala	Phe	Asn	Asn	Ile	Leu	Ser	Asn	
				95					100					105	
Leu	Gly	Tyr	Ile	Leu	Leu	Gly	Leu	Leu	Phe	Leu	Leu	Ile	Ile	Leu	
				110					115					120	
Gln	Arg	Glu	Ile	Asn	His	Asn	Arg	Ala	Leu	Leu	Arg	Asn	Asp	Leu	
				125					130					135	
Cys	Ala	Leu	Glu	Cys	Gly	Ile	Pro	Lys	His	Phe	Gly	Leu	Phe	Tyr	
				140					145					150	
Ala	Met	Gly	Thr	Ala	Leu	Met	Met	Glu	Gly	Leu	Leu	Ser	Ala	Cys	
				155					160					165	
Tyr	His	Val	Cys	Pro	Asn	Tyr	Thr	Asn	Phe	Gln	Phe	Asp	Thr	Ser	
				170					175					180	
Phe	Met	Tyr	Met	Ile	Ala	Gly	Leu	Cys	Met	Leu	Lys	Leu	Tyr	Gln	
				185					190					195	
Lys	Arg	His	Pro	Asp	Ile	Asn	Ala	Ser	Ala	Tyr	Ser	Ala	Tyr	Ala	
				200					205					210	
Cys	Leu	Ala	Ile	Val	Ile	Phe	Xaa	Ser	Val	Leu	Gly	Val	Val	Phe	
				215					220					225	
Gly	Lys	Gly	Asn	Thr	Ala	Phe	Trp	Ile	Val	Phe	Ser	Ile	Ile	His	
				230					235					240	
Ile	Ile	Ala	Thr	Leu	Leu	Leu	Ser	Thr	Gln	Leu	Tyr	Tyr	Met	Gly	
				245					250					255	
Arg	Trp	Lys	Leu	Asp	Ser	Gly	Ile	Phe	Arg	Arg	Ile	Leu	His	Val	
				260					265					270	
Leu	Tyr	Thr	Asp	Cys	Ile	Arg	Gln	Cys	Ser	Gly	Pro	Leu	Tyr	Val	
				275					280					285	
Asp	Arg	Met	Val	Leu	Leu	Val	Met	Gly	Asn	Val	Ile	Asn	Trp	Ser	
				290					295					300	
Leu	Ala	Ala	Tyr	Gly	Leu	Ile	Met	Arg	Pro	Asn	Asp	Phe	Ala	Ser	
				305					310					315	
Tyr	Leu	Leu	Ala	Ile	Gly	Ile	Cys	Asn	Leu	Leu	Leu	Tyr	Phe	Ala	
				320					325					330	
Phe	Tyr	Ile	Ile	Met	Lys	Leu	Arg	Ser	Gly	Glu	Arg	Ile	Lys	Leu	
				335					340					345	
Ile	Pro	Leu	Leu	Cys	Ile	Val	Cys	Thr	Ser	Val	Val	Trp	Gly	Phe	
				350					355					360	
Ala	Leu	Phe	Phe	Phe	Phe	Gln	Gly	Leu	Ser	Thr	Trp	Gln	Lys	Thr	
				365					370					375	
Pro	Ala	Glu	Ser	Arg	Glu	His	Asn	Arg	Asp	Cys	Ile	Leu	Leu	Asp	
				380					385					390	
Phe	Phe	Asp	Asp	His	Asp	Ile	Trp	His	Phe	Leu	Ser	Ser	Ile	Ala	
				395					400					405	
Met	Phe	Gly	Ser	Phe	Leu	Val	Leu	Leu	Thr	Leu	Asp	Asp	Asp	Leu	
				410					415					420	
Asp	Thr	Val	Gln	Arg	Asp	Lys	Ile	Tyr	Val	Phe					
				425					430						

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<210> 25
<211> 376
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1572888

<400> 25
Met Gly His Arg Phe Leu Arg Gly Leu Leu Thr Leu Leu Leu Pro
1 5 10 15
Pro Pro Pro Leu Tyr Thr Arg His Arg Met Leu Gly Pro Glu Ser
20 25 30
Val Pro Pro Pro Lys Arg Ser Arg Ser Lys Leu Met Ala Pro Pro
35 40 45
Arg Ile Gly Thr His Asn Gly Thr Phe His Cys Asp Glu Ala Leu
50 55 60
Ala Cys Ala Leu Leu Arg Leu Leu Pro Glu Tyr Arg Asp Ala Glu
65 70 75
Ile Val Arg Thr Arg Asp Pro Glu Lys Leu Ala Ser Cys Asp Ile
80 85 90
Val Val Asp Val Gly Gly Glu Tyr Asp Pro Arg Arg His Arg Tyr
95 100 105
Asp His His Gln Arg Ser Phe Thr Glu Thr Met Ser Ser Leu Ser
110 115 120
Pro Gly Lys Pro Trp Gln Thr Lys Leu Ser Ser Ala Gly Leu Ile
125 130 135
Tyr Leu His Phe Gly His Lys Leu Leu Ala Gln Leu Leu Gly Thr
140 145 150
Ser Glu Glu Asp Ser Met Val Gly Thr Leu Tyr Asp Lys Met Tyr
155 160 165
Glu Asn Phe Val Glu Glu Val Asp Ala Val Asp Asn Gly Ile Ser
170 175 180
Gln Trp Ala Glu Gly Glu Pro Arg Tyr Ala Leu Thr Thr Thr Leu
185 190 195
Ser Ala Arg Val Ala Arg Leu Asn Pro Thr Trp Asn His Pro Asp
200 205 210
Gln Asp Thr Glu Ala Gly Phe Lys Arg Ala Met Asp Leu Val Gln
215 220 225
Glu Glu Phe Leu Gln Arg Leu Asp Phe Tyr Gln His Ser Trp Leu
230 235 240
Pro Ala Arg Ala Leu Val Glu Glu Ala Leu Ala Gln Arg Phe Gln
245 250 255
Val Asp Pro Ser Gly Glu Ile Val Glu Leu Ala Lys Gly Ala Cys
260 265 270
Pro Trp Lys Glu His Leu Tyr His Leu Glu Ser Gly Leu Ser Pro
275 280 285
Pro Val Ala Ile Phe Phe Val Ile Tyr Thr Asp Gln Ala Gly Gln
290 295 300

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Trp	Arg	Ile	Gln	Cys	Val	Pro	Lys	Glu	Pro	His	Ser	Phe	Gln	Ser
			305						310					315
Arg	Leu	Pro	Leu	Pro	Glu	Pro	Trp	Arg	Gly	Leu	Arg	Asp	Glu	Ala
			320						325					330
Leu	Asp	Gln	Val	Ser	Gly	Ile	Pro	Gly	Cys	Ile	Phe	Val	His	Ala
			335						340					345
Ser	Gly	Phe	Ile	Gly	Gly	His	Arg	Thr	Arg	Glu	Gly	Ala	Leu	Ser
			350						355					360
Met	Ala	Arg	Ala	Thr	Leu	Ala	Gln	Arg	Ser	Tyr	Leu	Pro	Gln	Ile
			365						370					375

Ser

<210> 26

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1573677

<400> 26

Met	Arg	Leu	Arg	Gly	Leu	Leu	Gln	Gly	Thr	Leu	Arg	Phe	His	Thr
1				5					10					15
Ser	Pro	Pro	Thr	Asp	Ser	Ser	Val	Thr	Glu	Thr	Ile	Ile	Leu	Cys
				20					25					30
Thr	Met	Leu	Phe	Leu	Gly	Ser	Leu	Gly	Ala	Trp	Gly	Thr	Thr	Ser
				35					40					45
Ile	Ser	Thr	Gly	Ser	Ile	Phe	Ser	Leu	Lys	Thr	Leu	Arg	Ser	Gln
				50					55					60
His	Gly	Gly	Gln	Val	Gly	Leu	Lys	Val	Ser	Arg	Pro	Arg	Ala	Gln
				65					70					75
Pro	Leu	Pro	Ala	Gln	Pro	Pro	Ala	Leu	Ala	Gln	Pro	Gln	Tyr	Gln
				80					85					90
Ser	Pro	Gln	Gln	Pro	Pro	Gln	Thr	Arg	Trp	Val	Ala	Pro	Arg	Asn
				95					100					105
Arg	Asn	Ala	Ala	Phe	Gly	Gln	Ser	Gly	Gly	Ala	Gly	Ser	Asp	Ser
				110					115					120
Asn	Ser	Pro	Gly	Asn	Val	Gln	Pro	Asn	Ser	Ala	Pro	Ser	Val	Glu
				125					130					135
Ser	His	Pro	Val	Leu	Glu	Lys	Leu	Lys	Ala	Ala	His	Ser	Tyr	Asn
				140					145					150
Pro	Lys	Glu	Phe	Glu	Trp	Asn	Leu	Lys	Ser	Gly	Arg	Val	Phe	Ile
				155					160					165
Ile	Lys	Ser	Tyr	Ser	Glu	Asp	Asp	Ile	His	Arg	Ser	Ile	Lys	Tyr
				170					175					180
Ser	Ile	Trp	Cys	Ser	Thr	Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ser
				185					190					195
Ala	Phe	Arg	Cys	Met	Ser	Ser	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe

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Ala	Met	Asp	Glu	Asp	Gly	Asp	Glu	Ser	Ile	His	Lys	Leu	Lys	Glu
				20					25					30
Lys	Ala	Lys	Lys	Arg	Lys	Gly	Arg	Gly	Phe	Gly	Ser	Glu	Glu	Gly
				35					40					45
Ser	Arg	Ala	Arg	Met	Arg	Glu	Asp	Tyr	Asp	Ser	Val	Glu	Gln	Asp
				50					55					60
Gly	Asp	Glu	Pro	Gly	Pro	Gln	Arg	Ser	Val	Glu	Gly	Trp	Ile	Leu
				65					70					75
Phe	Val	Thr	Gly	Val	His	Glu	Glu	Ala	Thr	Glu	Glu	Asp	Ile	His
				80					85					90
Asp	Lys	Phe	Ala	Glu	Tyr	Gly	Glu	Ile	Lys	Asn	Ile	His	Leu	Asn
				95					100					105
Leu	Asp	Arg	Arg	Thr	Gly	Tyr	Leu	Lys	Gly	Tyr	Thr	Leu	Val	Glu
				110					115					120
Tyr	Glu	Thr	Tyr	Lys	Glu	Ala	Gln	Ala	Ala	Met	Glu	Gly	Leu	Asn
				125					130					135
Gly	Gln	Asp	Leu	Met	Gly	Gln	Pro	Ile	Ser	Val	Asp	Trp	Cys	Phe
				140					145					150

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Val Arg Gly Pro Pro Lys Gly Lys Arg Arg Gly Gly Arg Arg Arg
155 160 165
Ser Arg Ser Pro Asp Arg Arg Arg Arg
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Gln Pro His Arg Pro Asp Pro Gly Arg Pro Val Gly Leu Glu Gln
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Leu Arg Arg Leu Gly Val Leu Tyr Trp Lys Leu Asp Ala Asp Lys
35 40 45
Tyr Glu Asn Asp Pro Glu Leu Glu Lys Ile Arg Arg Glu Arg Asn
50 55 60
Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys Lys Asp Lys Leu Pro
65 70 75
Asn Tyr Glu Glu Lys Ile Lys Met Phe Tyr Glu Glu His Leu His
80 85 90
Leu Asp Asp Glu Ile Arg Tyr Ile Leu Asp Gly Ser Gly Tyr Phe
95 100 105
Asp Val Arg Asp Lys Glu Asp Gln Trp Ile Arg Ile Phe Met Glu
110 115 120
Lys Gly Asp Met Val Thr Leu Pro Ala Gly Ile Tyr His Arg Phe
125 130 135
Thr Val Asp Glu Lys Asn Tyr Thr Lys Ala Met Arg Leu Phe Val
140 145 150
Gly Glu Pro Val Trp Thr Ala Tyr Asn Arg Pro Ala Asp His Phe
155 160 165
Glu Ala Arg Gly Gln Tyr Val Lys Phe Leu Ala Gln Thr Ala
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PF-0356-3 DIV

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				20					25					30			
Ile	Ala	Tyr	Phe	Pro	Gln	Ile	Val	Ser	Val	Ala	Ala	Arg	Met	Leu			
				35					40					45			
Lys	Val	Ala	Arg	Leu	Leu	Glu	Val	Pro	Val	Met	Leu	Thr	Glu	Gln			
				50					55					60			
Tyr	Pro	Gln	Gly	Leu	Gly	Pro	Thr	Val	Pro	Glu	Leu	Gly	Thr	Glu			
				65					70					75			
Gly	Leu	Arg	Pro	Leu	Ala	Lys	Thr	Cys	Phe	Ser	Met	Val	Pro	Ala			
				80					85					90			
Leu	Gln	Gln	Glu	Leu	Asp	Ser	Arg	Pro	Gln	Leu	Arg	Ser	Val	Leu			
				95					100					105			
Leu	Cys	Gly	Ile	Glu	Ala	Gln	Ala	Cys	Ile	Leu	Asn	Thr	Thr	Leu			
				110					115					120			
Asp	Leu	Leu	Asp	Arg	Gly	Leu	Gln	Val	His	Val	Val	Val	Asp	Ala			
				125					130					135			
Cys	Ser	Ser	Arg	Ser	Gln	Val	Asp	Arg	Leu	Val	Ala	Leu	Ala	Arg			
				140					145					150			
Met	Arg	Gln	Ser	Gly	Ala	Phe	Leu	Ser	Thr	Ser	Glu	Gly	Leu	Ile			
				155					160					165			
Leu	Gln	Leu	Val	Gly	Asp	Ala	Val	His	Pro	Gln	Phe	Lys	Glu	Ile			
				170					175					180			
Gln	Lys	Leu	Ile	Lys	Glu	Pro	Ala	Pro	Asp	Ser	Gly	Leu	Leu	Gly			
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Leu	Phe	Gln	Gly	Gln	Asn	Ser	Leu	Leu	His								
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Thr	Arg	Lys	Arg	Asp	Glu	Lys	Glu	Lys	Phe	Glu	Pro	Thr	Val	Phe			
				20					25					30			
Arg	Asp	Thr	Leu	Val	Gln	Gly	Leu	Asn	Glu	Ala	Gly	Asp	Asp	Leu			
				35					40					45			
Glu	Ala	Val	Ala	Lys	Phe	Leu	Asp	Ser	Thr	Gly	Ser	Arg	Leu	Asp			
				50					55					60			
Tyr	Arg	Arg	Tyr	Ala	Asp	Thr	Leu	Phe	Asp	Ile	Leu	Val	Ala	Gly			
				65					70					75			
Ser	Met	Leu	Ala	Pro	Gly	Gly	Thr	Arg	Ile	Asp	Asp	Gly	Asp	Lys			

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				80					85					90
Thr	Lys	Met	Thr	Asn	His	Cys	Val	Phe	Ser	Ala	Asn	Glu	Asp	His
				95					100					105
Glu	Thr	Ile	Arg	Asn	Tyr	Ala	Gln	Val	Phe	Asn	Lys	Leu	Ile	Arg
				110					115					120
Arg	Tyr	Lys	Tyr	Leu	Glu	Lys	Ala	Phe	Glu	Asp	Glu	Met	Lys	Lys
				125					130					135
Leu	Leu	Leu	Phe	Leu	Lys	Ala	Phe	Ser	Glu	Thr	Glu	Gln	Thr	Lys
				140					145					150
Leu	Ala	Met	Leu	Ser	Gly	Ile	Leu	Leu	Gly	Asn	Gly	Thr	Leu	Pro
				155					160					165
Ala	Thr	Ile	Leu	Thr	Ser	Leu	Phe	Thr	Asp	Ser	Leu	Val	Lys	Glu
				170					175					180
Gly	Ile	Ala	Ala	Ser	Phe	Ala	Val	Lys	Leu	Phe	Lys	Ala	Trp	Met
				185					190					195
Ala	Glu	Lys	Asp	Ala	Asn	Ser	Val	Thr	Ser	Ser	Leu	Arg	Lys	Ala
				200					205					210
Asn	Leu	Asp	Lys	Arg	Leu	Leu	Glu	Leu	Phe	Pro	Val	Asn	Arg	Gln
				215					220					225
Ser	Val	Asp	His	Phe	Ala	Lys	Tyr	Phe	Thr	Asp	Ala	Gly	Leu	Lys
				230					235					240
Glu	Leu	Ser	Asp	Phe	Leu	Arg	Val	Gln	Gln	Ser	Leu	Gly	Thr	Arg
				245					250					255
Lys	Glu	Leu	Gln	Lys	Glu	Leu	Gln	Glu	Arg	Leu	Ser	Gln	Glu	Cys
				260					265					270
Pro	Ile	Lys	Glu	Val	Val	Leu	Tyr	Val	Lys	Glu	Glu	Met	Lys	Arg
				275					280					285
Asn	Asp	Leu	Pro	Glu	Thr	Ala	Val	Ile	Gly	Leu	Leu	Trp	Thr	Cys
				290					295					300
Ile	Met	Asn	Ala	Val	Glu	Trp	Asn	Lys	Lys	Glu	Glu	Leu	Val	Ala
				305					310					315
Glu	Gln	Ala	Leu	Lys	His	Leu	Lys	Gln	Tyr	Ala	Pro	Leu	Leu	Ala
				320					325					330
Val	Phe	Ser	Ser	Gln	Gly	Gln	Ser	Glu	Leu	Ile	Leu	Leu	Gln	Lys
				335					340					345
Val	Gln	Glu	Tyr	Cys	Tyr	Asp	Asn	Ile	His	Phe	Met	Lys	Ala	Phe
				350					355					360
Gln	Lys	Ile	Val	Val	Leu	Phe	Tyr	Lys	Ala	Asp	Val	Leu	Ser	Glu
				365					370					375
Glu	Ala	Ile	Leu	Lys	Trp	Tyr	Lys	Glu	Ala	His	Val	Ala	Lys	Gly
				380					385					390
Lys	Ser	Val	Phe	Leu	Asp	Gln	Met	Lys	Lys	Phe	Val	Glu	Trp	Leu
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Gln	Asn	Ala	Glu	Glu	Glu	Ser	Glu	Ser	Glu	Gly	Glu	Glu	Asn	
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Pro	Gly	Gln	Pro	Ala	Val	Trp	His	Arg	Leu	Glu	Glu	Leu	Tyr	Thr	
				20					25					30	
Lys	Lys	Leu	Trp	His	Gln	Leu	Thr	Leu	Gln	Val	Leu	Asp	Phe	Val	
				35					40					45	
Gln	Asp	Pro	Cys	Phe	Ala	Gln	Gly	Asp	Gly	Leu	Ile	Lys	Leu	Tyr	
				50					55					60	
Glu	Asn	Phe	Ile	Ser	Glu	Phe	Glu	His	Arg	Val	Asn	Pro	Leu	Ser	
				65					70					75	
Leu	Val	Glu	Ile	Ile	Leu	His	Val	Val	Arg	Gln	Met	Thr	Asp	Pro	
				80					85					90	
Asn	Val	Ala	Leu	Thr	Phe	Leu	Glu	Lys	Thr	Arg	Glu	Lys	Val	Lys	
				95					100					105	
Ser	Ser	Asp	Glu	Ala	Val	Ile	Leu	Cys	Lys	Thr	Ala	Ile	Gly	Ala	
				110					115					120	
Leu	Lys	Leu	Asn	Ile	Gly	Asp	Leu	Gln	Val	Thr	Lys	Glu	Thr	Ile	
				125					130					135	
Glu	Asp	Val	Glu	Glu	Met	Leu	Asn	Asn	Leu	Pro	Gly	Val	Thr	Ser	
				140					145					150	
Val	His	Ser	Arg	Phe	Tyr	Asp	Leu	Ser	Ser	Lys	Tyr	Tyr	Gln	Thr	
				155					160					165	
Ile	Gly	Asn	His	Ala	Ser	Tyr	Tyr	Lys	Asp	Ala	Leu	Arg	Phe	Leu	
				170					175					180	
Gly	Cys	Val	Asp	Ile	Lys	Asp	Leu	Pro	Val	Ser	Glu	Gln	Gln	Glu	
				185					190					195	
Arg	Ala	Phe	Thr	Leu	Gly	Leu	Ala	Gly	Leu	Leu	Gly	Glu	Gly	Val	
				200					205					210	
Phe	Asn	Phe	Gly	Glu	Leu	Leu	Met	His	Pro	Val	Leu	Glu	Ser	Leu	
				215					220					225	
Arg	Asn	Thr	Asp	Arg	Gln	Trp	Leu	Ile	Asp	Thr	Leu	Tyr	Ala	Phe	
				230					235					240	
Asn	Ser	Gly	Asn	Val	Glu	Arg	Phe	Gln	Thr	Leu	Lys	Thr	Ala	Trp	
				245					250					255	
Gly	Gln	Gln	Pro	Asp	Leu	Ala	Ala	Asn	Glu	Ala	Gln	Leu	Leu	Arg	
				260					265					270	
Lys	Ile	Gln	Leu	Leu	Cys	Leu	Met	Glu	Met	Thr	Phe	Thr	Arg	Pro	
				275					280					285	
Ala	Asn	His	Arg	Gln	Leu	Thr	Phe	Glu	Glu	Ile	Ala	Lys	Ser	Ala	
				290					295					300	
Lys	Ile	Thr	Val	Asn	Glu	Val	Glu	Leu	Leu	Val	Met	Lys	Ala	Leu	
				305					310					315	
Ser	Val	Gly	Leu	Val	Lys	Gly	Ser	Ile	Asp	Glu	Val	Asp	Lys	Arg	
				320					325					330	
Val	His	Met	Thr	Trp	Val	Gln	Pro	Arg	Val	Leu	Asp	Leu	Gln	Gln	

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	335		340		345
Ile Lys Gly Met	Lys Asp Arg Leu Glu Phe Trp Cys Thr Asp Val				
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Lys Ser Met Glu Met	Leu Val Glu His Gln Ala His Asp Ile Leu				
	365		370		375
Thr					

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Ala Ala Met Ala Ala Gly Glu Ser Met Ala Gln Arg Met Val Trp	
35 40 45	
Val Asp Leu Glu Met Thr Gly Leu Asp Ile Glu Lys Asp Gln Ile	
50 55 60	
Ile Glu Met Ala Cys Leu Ile Thr Asp Ser Asp Leu Asn Ile Leu	
65 70 75	
Ala Glu Gly Pro Asn Leu Ile Ile Lys Gln Pro Asp Glu Leu Leu	
80 85 90	
Asp Ser Met Ser Asp Trp Cys Lys Glu His His Gly Lys Ser Gly	
95 100 105	
Leu Thr Lys Ala Val Lys Glu Ser Thr Ile Thr Leu Gln Gln Ala	
110 115 120	
Glu Tyr Glu Phe Leu Ser Phe Val Arg Gln Gln Thr Pro Pro Gly	
125 130 135	
Leu Cys Pro Leu Ala Gly Asn Ser Val His Glu Asp Lys Lys Phe	
140 145 150	
Leu Asp Lys Tyr Met Pro Gln Phe Met Lys His Leu His Tyr Arg	
155 160 165	
Ile Ile Asp Val Ser Thr Val Lys Glu Leu Cys Arg Arg Trp Tyr	
170 175 180	
Pro Glu Glu Tyr Glu Phe Ala Pro Lys Lys Ala Ala Ser His Arg	
185 190 195	
Ala Leu Asp Asp Ile Ser Glu Ser Ile Lys Glu Leu Gln Phe Tyr	
200 205 210	
Arg Asn Asn Ile Phe Lys Lys Lys Ile Asp Glu Lys Lys Arg Lys	
215 220 225	
Ile Ile Glu Asn Gly Glu Asn Glu Lys Thr Val Ser	
230 235	

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20 25 30
Ser Lys Ser Thr Gln Phe Glu Tyr Ala Trp Cys Leu Val Arg Ser
35 40 45
Lys Tyr Asn Asp Asp Ile Arg Lys Gly Ile Val Leu Leu Glu Glu
50 55 60
Leu Leu Pro Lys Gly Ser Lys Glu Glu Gln Arg Asp Tyr Val Phe
65 70 75
Tyr Leu Ala Val Gly Asn Tyr Arg Leu Lys Glu Tyr Glu Lys Ala
80 85 90
Leu Lys Tyr Val Arg Gly Leu Leu Gln Thr Glu Pro Gln Asn Asn
95 100 105
Gln Ala Lys Glu Leu Glu Arg Leu Ile Asp Lys Ala Met Lys Lys
110 115 120
Asp Gly Leu Val Gly Met Ala Ile Val Gly Gly Met Ala Leu Gly
125 130 135
Val Ala Gly Leu Ala Gly Leu Ile Gly Leu Ala Val Ser Lys Ser
140 145 150
Lys Phe

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Thr Leu Gly Leu Ala Val Gly Val Ala Cys Gly Met Cys Leu Gly
20 25 30
Trp Ser Leu Arg Val Cys Phe Gly Met Leu Pro Lys Ser Lys Thr
35 40 45
Ser Lys Thr His Thr Asp Thr Glu Ser Glu Ala Ser Ile Leu Gly

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Ile Lys His Met Ile Lys Tyr Arg Tyr Ile Pro Phe Thr His Gly
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Lys Arg Arg Tyr Arg Gly Lys Glu Asp Ala Gly Lys Ala Phe Ala
185 190 195
Ser

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Pro Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro
20 25 30
Ala Arg Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu
35 40 45
Ala Trp Gly Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys
50 55 60
Gln Thr Asp Leu Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val
65 70 75
Phe Leu Ala Asp Gln Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys
80 85 90
Val Ser Phe Lys Asn His Ser Ala Leu Ile Thr Ser Val Val Pro
95 100 105
Gly Asp Tyr Asp Gly Asp Ser Gln Met Asp Val Leu Leu Thr Tyr
110 115 120
Leu Pro Lys Asn Tyr Ala Lys Ser Glu Leu Gly Ala Val Ile Phe
125 130 135
Trp Gly Gln Asn Gln Thr Leu Asp Pro Asn Asn Met Thr Ile Leu
140 145 150
Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile Met Asp Phe Asn Gly
155 160 165
Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn Glu Ser Asn Gln
170 175 180
Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His Pro Ala Leu
185 190 195
Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala Phe Ile
200 205 210
Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr Leu
215 220 225
Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
230 235 240
Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Glu Lys Pro Gln Asn

	245	250	255
Met Met Val Val	Gly Gln Ser Ala Phe	Ala Asp Phe Asp Gly Asp	
	260	265	270
Gly His Met Asp	His Leu Leu Pro Gly Cys	Glu Asp Lys Asn Cys	
	275	280	285
Gln Lys Ser Thr	Ile Tyr Leu Val Arg Ser	Gly Met Lys Gln Trp	
	290	295	300
Val Pro Val Leu	Gln Asp Phe Ser Asn Lys	Gly Thr Leu Trp Gly	
	305	310	315
Phe Val Pro Phe	Val Asp Glu Gln Gln Pro	Thr Glu Ile Pro Ile	
	320	325	330
Pro Ile Thr Leu	His Ile Gly Asp Tyr Asn	Met Asp Gly Tyr Pro	
	335	340	345
Asp Ala Leu Val	Ile Leu Lys Asn Thr Ser	Gly Ser Asn Gln Gln	
	350	355	360
Ala Phe Leu Leu	Glu Asn Val Pro Cys Asn	Asn Ala Ser Cys Glu	
	365	370	375
Glu Ala Arg Arg	Met Phe Lys Val Tyr Trp	Glu Leu Thr Asp Leu	
	380	385	390
Asn Gln Ile Lys	Asp Ala Met Val Ala Thr	Phe Phe Asp Ile Tyr	
	395	400	405
Glu Asp Gly Ile	Leu Asp Ile Val Val Leu	Ser Lys Gly Tyr Thr	
	410	415	420
Lys Asn Asp Phe	Ala Ile His Thr Leu Lys	Asn Asn Phe Glu Ala	
	425	430	435
Asp Ala Tyr Phe	Val Lys Val Ile Val Leu	Ser Gly Leu Cys Ser	
	440	445	450
Asn Asp Cys Pro	Arg Lys Ile Thr Pro Phe	Gly Val Asn Gln Pro	
	455	460	465
Gly Pro Tyr Ile	Met Tyr Thr Thr Leu Asp	Ala Asn Gly Tyr Leu	
	470	475	480
Lys Asn Gly Ser	Ala Gly Gln Leu Ser Gln	Ser Ala His Leu Ala	
	485	490	495
Leu Gln Leu Pro	Tyr Asn Val Leu Gly Leu	Gly Arg Ser Ala Asn	
	500	505	510
Phe Leu Asp His	Leu Tyr Val Gly Ile Pro	Arg Pro Ser Gly Glu	
	515	520	525
Lys Ser Ile Arg	Lys Gln Glu Trp Thr Ala	Ile Ile Pro Asn Ser	
	530	535	540
Gln Leu Ile Val	Ile Pro Tyr Pro His Asn	Val Pro Arg Ser Trp	
	545	550	555
Ser Ala Lys Leu	Tyr Leu Thr Pro Ser Asn	Ile Val Leu Leu Thr	
	560	565	570
Ala Ile Ala Leu	Ile Gly Val Cys Val Phe	Ile Leu Ala Ile Ile	
	575	580	585
Gly Ile Leu His	Trp Gln Glu Lys Lys Ala	Asp Asp Arg Glu Lys	
	590	595	600
Arg Gln Glu Ala	His Arg Phe His Phe Asp	Ala Met	
	605	610	

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<210> 37
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1990522

<400> 37
Met Ala Ala Pro Leu Ser Val Glu Val Glu Phe Gly Gly Gly Ala
1 5 10 15
Glu Leu Leu Phe Asp Gly Ile Lys Lys His Arg Val Thr Leu Pro
20 25 30
Gly Gln Glu Glu Pro Trp Asp Ile Arg Asn Leu Leu Ile Trp Ile
35 40 45
Lys Lys Asn Leu Leu Lys Glu Arg Pro Glu Leu Phe Ile Gln Gly
50 55 60
Asp Ser Val Arg Pro Gly Ile Leu Val Leu Ile Asn Asp Ala Asp
65 70 75
Trp Glu Leu Leu Gly Glu Leu Asp Tyr Gln Leu Gln Asp Gln Asp
80 85 90
Ser Val Leu Phe Ile Ser Thr Leu His Gly Gly
95 100

<210> 38
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2098087

<400> 38
Met Ala Lys Asp Ile Leu Gly Glu Ala Gly Leu His Phe Asp Glu
1 5 10 15
Leu Asn Lys Leu Arg Val Leu Asp Pro Glu Val Thr Gln Gln Thr
20 25 30
Ile Glu Leu Lys Glu Glu Cys Lys Asp Phe Val Asp Lys Ile Gly
35 40 45
Gln Phe Gln Lys Ile Val Gly Gly Leu Ile Glu Leu Val Asp Gln
50 55 60
Leu Ala Lys Glu Ala Glu Asn Glu Lys Met Lys Ala Ile Gly Ala
65 70 75
Arg Asn Leu Leu Lys Ser Ile Ala Lys Gln Arg Glu Ala Gln Gln
80 85 90
Gln Gln Leu Gln Ala Leu Ile Ala Glu Lys Lys Met Gln Leu Glu
95 100 105
Arg Tyr Arg Val Glu Tyr Glu Ala Leu Cys Lys Val Glu Ala Glu

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				110					115			120
Gln	Asn	Glu	Phe	Ile	Asp	Gln	Phe	Ile	Phe	Gln	Lys	
				125					130			

<210> 39
<211> 188
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2112230

<400> 39
Met Ala Asn Ser Gly Cys Lys Asp Val Thr Gly Pro Asp Glu Glu
1 5 10 15
Ser Phe Leu Tyr Phe Ala Tyr Gly Ser Asn Leu Leu Thr Glu Arg
20 25 30
Ile His Leu Arg Asn Pro Ser Ala Ala Phe Phe Cys Val Ala Arg
35 40 45
Leu Gln Asp Phe Lys Leu Asp Phe Gly Asn Ser Gln Gly Lys Thr
50 55 60
Ser Gln Thr Trp His Gly Gly Ile Ala Thr Ile Phe Gln Ser Pro
65 70 75
Gly Asp Glu Val Trp Gly Val Val Trp Lys Met Asn Lys Ser Asn
80 85 90
Leu Asn Ser Leu Asp Glu Gln Glu Gly Val Lys Ser Gly Met Tyr
95 100 105
Val Val Ile Glu Val Lys Val Ala Thr Gln Glu Gly Lys Glu Ile
110 115 120
Thr Cys Arg Ser Tyr Leu Met Thr Asn Tyr Glu Ser Ala Pro Pro
125 130 135
Ser Pro Gln Tyr Lys Lys Ile Ile Cys Met Gly Ala Lys Glu Asn
140 145 150
Gly Leu Pro Leu Glu Tyr Gln Glu Lys Leu Lys Ala Ile Glu Pro
155 160 165
Asn Asp Tyr Thr Gly Lys Val Ser Glu Glu Ile Glu Asp Ile Ile
170 175 180
Lys Lys Gly Glu Thr Gln Thr Leu
185

<210> 40
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2117050

PF-0356-3 DIV

<400> 40

Met	Thr	Asp	Arg	Tyr	Thr	Ile	His	Ser	Gln	Leu	Glu	His	Leu	Gln
1				5					10					15
Ser	Lys	Tyr	Ile	Gly	Thr	Gly	His	Ala	Asp	Thr	Thr	Lys	Trp	Glu
				20					25					30
Trp	Leu	Val	Asn	Gln	His	Arg	Asp	Ser	Tyr	Cys	Ser	Tyr	Met	Gly
				35					40					45
His	Phe	Asp	Leu	Leu	Asn	Tyr	Phe	Ala	Ile	Ala	Glu	Asn	Glu	Ser
				50					55					60
Lys	Ala	Arg	Val	Arg	Phe	Asn	Leu	Met	Glu	Lys	Met	Leu	Gln	Pro
				65					70					75
Cys	Gly	Pro	Pro	Ala	Asp	Lys	Pro	Glu	Glu	Asn				
				80					85					

<210> 41

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2184712

<400> 41

Met	Ser	Gly	Leu	Gly	Arg	Leu	Phe	Gly	Lys	Gly	Lys	Lys	Glu	Lys
1				5					10					15
Gly	Pro	Thr	Pro	Glu	Glu	Ala	Ile	Gln	Lys	Leu	Lys	Glu	Thr	Glu
				20					25					30
Lys	Ile	Leu	Ile	Lys	Lys	Gln	Glu	Phe	Leu	Glu	Gln	Lys	Ile	Gln
				35					40					45
Gln	Glu	Leu	Gln	Thr	Ala	Lys	Lys	Tyr	Gly	Thr	Lys	Asn	Lys	Arg
				50					55					60
Ala	Ala	Leu	Gln	Ala	Leu	Arg	Arg	Lys	Lys	Arg	Phe	Glu	Gln	Gln
				65					70					75
Leu	Ala	Gln	Thr	Asp	Gly	Thr	Leu	Ser	Thr	Leu	Glu	Phe	Gln	Arg
				80					85					90
Glu	Ala	Ile	Glu	Asn	Ala	Thr	Thr	Asn	Ala	Glu	Val	Leu	Arg	Thr
				95					100					105
Met	Glu	Leu	Ala	Ala	Gln	Ser	Met	Lys	Lys	Ala	Tyr	Gln	Asp	Met
				110					115					120
Asp	Ile	Asp	Lys	Val	Asp	Glu	Leu	Met	Thr	Asp	Ile	Thr	Glu	Gln
				125					130					135
Gln	Glu	Val	Ala	Gln	Gln	Ile	Ser	Asp	Ala	Ile	Ser	Arg	Pro	Met
				140					145					150
Gly	Phe	Gly	Asp	Asp	Val	Asp	Glu	Asp	Glu	Leu	Leu	Glu	Glu	Leu
				155					160					165
Glu	Glu	Leu	Glu	Gln	Glu	Glu	Leu	Ala	Gln	Glu	Leu	Leu	Asn	Val
				170					175					180
Gly	Asp	Lys	Glu	Glu	Glu	Pro	Ser	Val	Lys	Leu	Pro	Ser	Val	Pro
				185					190					195

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Ser Thr His Leu Pro Ala Gly Pro Ala Pro Lys Val Asp Glu Asp
200 205 210
Glu Glu Ala Leu Lys Gln Leu Ala Glu Trp Val Ser
215 220

<210> 42

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2290475

<400> 42

Met Ser Gly Ser Asn Gly Ser Lys Glu Asn Ser His Asn Lys Ala
1 5 10 15
Arg Thr Ser Pro Tyr Pro Gly Ser Lys Val Glu Arg Ser Gln Val
20 25 30
Pro Asn Glu Lys Val Gly Trp Leu Val Glu Trp Gln Asp Tyr Lys
35 40 45
Pro Val Glu Tyr Thr Ala Val Ser Val Leu Ala Gly Pro Arg Trp
50 55 60
Ala Asp Pro Gln Ile Ser Glu Ser Asn Phe Ser Pro Lys Phe Asn
65 70 75
Glu Lys Asp Gly His Val Glu Arg Lys Ser Lys Asn Gly Leu Tyr
80 85 90
Glu Ile Glu Asn Gly Arg Pro Arg Asn Pro Ala Gly Arg Thr Gly
95 100 105
Leu Val Gly Arg Gly Leu Leu Gly Arg Trp Gly Pro Asn His Ala
110 115 120
Ala Asp Pro Ile Ile Thr Arg Trp Lys Arg Asp Ser Ser Gly Asn
125 130 135
Lys Ile Met His Pro Val Ser Gly Lys His Ile Leu Gln Phe Val
140 145 150
Ala Ile Lys Arg Lys Asp Cys Gly Glu Trp Ala Ile Pro Gly Gly
155 160 165
Met Val Asp Pro Gly Glu Lys Ile Ser Ala Thr Leu Lys Arg Glu
170 175 180
Phe Gly Glu Glu Ala Leu Asn Ser Leu Gln Lys Thr Ser Ala Glu
185 190 195
Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu Phe Ser Gln Asp
200 205 210
His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro Arg Asn Thr
215 220 225
Asp Asn Ala Trp Met Glu Thr Glu Ala Val Asn Tyr His Asp Glu
230 235 240
Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp Asp
245 250 255
Ala Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu

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	260		265		270									
Tyr	Ala	Ser	His	Ser	Gln	Phe	Ile	Lys	Leu	Val	Ala	Glu	Lys	Arg
				275					280					285
Asp	Ala	His	Trp	Ser	Glu	Asp	Ser	Glu	Ala	Asp	Cys	His	Ala	Leu
				290					295					300

<210> 43
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2353452

<400> 43
Met Glu Ala Tyr Glu Gln Val Gln Lys Gly Pro Leu Lys Leu Lys
1 5 10 15
Gly Val Ala Glu Leu Gly Val Thr Lys Arg Lys Lys Lys Lys Lys
20 25 30
Asp Lys Asp Lys Ala Lys Leu Leu Glu Ala Met Gly Thr Ser Lys
35 40 45
Lys Asn Glu Glu Glu Lys Arg Arg Gly Leu Asp Lys Arg Thr Pro
50 55 60
Ala Gln Ala Ala Phe Glu Lys Met Gln Glu Lys Arg Gln Met Glu
65 70 75
Arg Ile Leu Lys Lys Ala Ser Lys Thr His Lys Gln Arg Val Glu
80 85 90
Asp Phe Asn Arg His Leu Asp Thr Leu Thr Glu His Tyr Asp Ile
95 100 105
Pro Lys Val Ser Trp Thr Lys
110

<210> 44
<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2469611

<400> 44
Met Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr
1 5 10 15
Arg Tyr Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys
20 25 30
Leu Gly Leu Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala
35 40 45

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				80					85				90
Thr	Phe	Asn	Lys	Met	Pro	Pro	Gln	Arg	Gly	Gly	Gly	Ser	Ser
				95					100				105
Leu	Phe	Ser	Ser	Ser	Phe	Asn	Gly	Gly	Arg	Arg	Asp	Glu	Val
				110					115				120
Glu	Ala	Gln	Arg	Ala	Glu	Phe	Ser	Pro	Ala	Gln	Phe	Ser	Gly
				125					130				135
Lys	Lys	Ile	Asn	Leu	Asn	His	Leu	Leu	Asn	Phe	Thr	Phe	Glu
				140					145				150
Arg	Gly	Gln	Thr	Gly	His	Phe	Glu	Gly	Ser	Gly	His	Gly	Ser
				155					160				165
Gly	Lys	Arg	Asn	Lys	Trp	Gly	His	Lys	Pro	Phe	Asn	Lys	Glu
				170					175				180
Phe	Leu	Gln	Ala	Asn	Cys	Gln	Phe	Val	Val	Ser	Glu	Asp	Gln
				185					190				195
Tyr	Thr	Ala	His	Phe	Ala	Asp	Pro	Asp	Thr	Leu	Val	Asn	Trp
				200					205				210
Phe	Val	Glu	Gln	Val	Arg	Ile	Cys	Ser	His	Glu	Val	Pro	Ser
				215					220				225
Pro	Ile	Cys	Leu	Tyr	Pro	Pro	Thr	Ala	Ala	Lys	Ile	Thr	Arg
				230					235				240
Gly	His	Ile	Phe	Cys	Trp	Ala	Cys	Ile	Leu	His	Tyr	Leu	Ser
				245					250				255
Ser	Glu	Lys	Thr	Trp	Ser	Lys	Cys	Pro	Ile	Cys	Tyr	Ser	Ser
				260					265				270
His	Lys	Lys	Asp	Leu	Lys	Ser	Val	Val	Ala	Thr	Glu	Ser	His
				275					280				285
Tyr	Val	Val	Gly	Asp	Thr	Ile	Thr	Met	Gln	Leu	Met	Lys	Arg
				290					295				300
Lys	Gly	Val	Leu	Val	Ala	Leu	Pro	Lys	Ser	Lys	Trp	Met	Asn
				305					310				315
Asp	His	Pro	Ile	His	Leu	Gly	Asp	Glu	Gln	His	Ser	Gln	Tyr
				320					325				330
Lys	Leu	Leu	Leu	Ala	Ser	Lys	Glu	Gln	Val	Leu	His	Arg	Val
				335					340				345
Leu	Glu	Glu	Lys	Val	Ala	Leu	Glu	Gln	Gln	Leu	Ala	Glu	Glu
				350					355				360
His	Thr	Pro	Glu	Ser	Cys	Phe	Ile	Glu	Ala	Ala	Ile	Gln	Glu
				365					370				375
Lys	Thr	Arg	Glu	Glu	Ala	Leu	Ser	Gly	Leu	Ala	Gly	Ser	Arg
				380					385				390
Glu	Val	Thr	Gly	Val	Val	Ala	Ala	Leu	Glu	Gln	Leu	Val	Leu
				395					400				405
Ala	Pro	Leu	Ala	Lys	Glu	Ser	Val	Phe	Gln	Pro	Arg	Lys	Gly
				410					415				420
Leu	Glu	Tyr	Leu	Ser	Ala	Phe	Asp	Glu	Glu	Thr	Thr	Glu	Val
				425					430				435
Ser	Leu	Asp	Thr	Pro	Ser	Arg	Pro	Leu	Ala	Leu	Pro	Leu	Val
				440					445				450
Glu	Glu	Glu	Ala	Val	Ser	Glu	Pro	Glu	Pro	Glu	Gly	Leu	Pro

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	455		460		465
Ala Cys Asp Asp	Leu Glu Leu Ala Asp	Asn Leu Lys Glu Gly			
	470		475		480
Thr Ile Cys Thr	Glu Ser Ser Gln Gln	Glu Pro Ile Thr Lys Ser			
	485		490		495
Gly Phe Thr Arg	Leu Ser Ser Ser Pro	Cys Tyr Tyr Phe Tyr Gln			
	500		505		510
Ala Glu Asp Gly	Gln His Met Phe Leu	His Pro Val Asn Val Arg			
	515		520		525
Cys Leu Val Arg	Glu Tyr Gly Ser Leu	Glu Arg Ser Pro Glu Lys			
	530		535		540
Ile Ser Ala Thr	Val Val Glu Ile Ala	Gly Tyr Ser Met Ser Glu			
	545		550		555
Asp Val Arg Gln	Arg His Arg Tyr Leu	Ser His Leu Pro Leu Thr			
	560		565		570
Cys Glu Phe Ser	Ile Cys Glu Leu Ala	Leu Gln Pro Pro Val Val			
	575		580		585
Ser Lys Glu Thr	Leu Glu Met Phe Ser	Asp Asp Ile Glu Lys Arg			
	590		595		600
Lys Arg Gln Arg	Gln Lys Lys Ala Arg	Glu Glu Arg Arg Arg Glu			
	605		610		615
Arg Arg Ile Glu	Ile Glu Glu Asn Lys	Lys Gln Gly Lys Tyr Pro			
	620		625		630
Glu Val His Ile	Pro Leu Glu Asn Leu	Gln Gln Phe Pro Ala Phe			
	635		640		645
Asn Ser Tyr Thr	Cys Ser Ser Asp Ser	Ala Leu Gly Pro Thr Ser			
	650		655		660
Thr Glu Gly His	Gly Ala Leu Ser Ile	Ser Pro Leu Ser Arg Ser			
	665		670		675
Pro Gly Ser His	Ala Asp Phe Leu Leu	Thr Pro Leu Ser Pro Thr			
	680		685		690
Ala Ser Gln Gly	Ser Pro Ser Phe Cys	Val Gly Ser Leu Glu Glu			
	695		700		705
Asp Ser Pro Phe	Pro Ser Phe Ala Gln	Met Leu Arg Val Gly Lys			
	710		715		720
Ala Lys Ala Asp	Val Trp Pro Lys Thr	Ala Pro Lys Lys Asp Glu			
	725		730		735
Asn Ser Leu Val	Pro Pro Ala Pro Val	Asp Ser Asp Gly Glu Ser			
	740		745		750
Asp Asn Ser Asp	Arg Val Pro Val Pro	Ser Phe Gln Asn Ser Phe			
	755		760		765
Ser Gln Ala Ile	Glu Ala Ala Phe Met	Lys Leu Asp Thr Pro Ala			
	770		775		780
Thr Ser Asp Pro	Leu Ser Glu Glu Lys	Gly Gly Lys Lys Arg Lys			
	785		790		795
Lys Gln Lys Gln	Lys Leu Leu Phe Ser	Thr Ser Val Val His Thr			
	800		805		810
Lys					

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<210> 46

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2754573

<400> 46

Met	His	Val	Val	Ala	Pro	Ala	Ser	Leu	Arg	Leu	Gly	Thr	Gly	Thr	
1				5					10					15	
Asn	Leu	Pro	Pro	Ser	Pro	Thr	Cys	Leu	Thr	Lys	Leu	Ala	Leu	Pro	
				20					25					30	
Pro	Ala	Ala	Glu	Pro	Ser	Leu	Leu	Ala	Met	Ser	Gln	Ser	Arg	His	
				35					40					45	
Arg	Ala	Glu	Ala	Pro	Pro	Leu	Glu	Arg	Glu	Asp	Ser	Gly	Thr	Phe	
				50					55					60	
Ser	Leu	Gly	Lys	Met	Ile	Thr	Ala	Lys	Pro	Gly	Lys	Thr	Pro	Ile	
				65					70					75	
Gln	Val	Leu	His	Glu	Tyr	Gly	Met	Lys	Thr	Lys	Asn	Ile	Pro	Val	
				80					85					90	
Tyr	Glu	Cys	Glu	Arg	Ser	Asp	Val	Gln	Ile	His	Val	Pro	Thr	Phe	
				95					100					105	
Thr	Phe	Arg	Val	Thr	Val	Gly	Asp	Ile	Thr	Cys	Thr	Gly	Glu	Gly	
				110					115					120	
Thr	Ser	Lys	Lys	Leu	Ala	Lys	His	Arg	Ala	Ala	Glu	Ala	Ala	Ile	
				125					130					135	
Asn	Ile	Leu	Lys	Ala	Asn	Ala	Ser	Ile	Cys	Phe	Ala	Val	Pro	Asp	
				140					145					150	
Pro	Leu	Met	Pro	Asp	Pro	Ser	Lys	Gln	Pro	Lys	Asn	Gln	Leu	Asn	
				155					160					165	
Pro	Ile	Gly	Ser	Leu	Gln	Glu	Leu	Ala	Ile	His	His	Gly	Trp	Arg	
				170					175					180	
Leu	Pro	Glu	Tyr	Thr	Leu	Ser	Gln	Glu	Gly	Gly	Pro	Ala	His	Lys	
				185					190					195	
Arg	Glu	Tyr	Thr	Thr	Ile	Cys	Arg	Leu	Glu	Ser	Phe	Met	Glu	Thr	
				200					205					210	
Gly	Lys	Gly	Ala	Ser	Lys	Lys	Gln	Ala	Lys	Arg	Asn	Ala	Ala	Glu	
				215					220					225	
Lys	Phe	Leu	Ala	Lys	Phe	Ser	Asn	Ile	Ser	Pro	Glu	Asn	His	Ile	
				230					235					240	
Ser	Leu	Thr	Asn	Val	Val	Gly	His	Ser	Leu	Gly	Cys	Thr	Trp	His	
				245					250					255	
Ser	Leu	Arg	Asn	Ser	Pro	Gly	Glu	Lys	Ile	Asn	Leu	Leu	Lys	Arg	
				260					265					270	
Ser	Leu	Leu	Ser	Ile	Pro	Asn	Thr	Asp	Tyr	Ile	Gln	Leu	Leu	Ser	
				275					280					285	
Glu	Ile	Ala	Lys	Glu	Gln	Gly	Phe	Asn	Ile	Thr	Tyr	Leu	Asp	Ile	
				290					295					300	

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Asp Glu Leu Ser Ala Asn Gly Gln Tyr Gln Cys Leu Ala Glu Leu
305 310 315
Ser Thr Ser Pro Ile Thr Val Cys His Gly Ser Gly Ile Ser Cys
320 325 330
Gly Asn Ala Gln Ser Asp Ala Ala His Asn Ala Leu Gln Tyr Leu
335 340 345
Lys Ile Ile Ala Glu Arg Lys
350

<210> 47

<211> 432

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2926777

<400> 47

Met Ile Ser Ala Ala Gln Leu Leu Asp Glu Leu Met Gly Arg Asp
1 5 10 15
Arg Asn Leu Ala Pro Asp Glu Lys Arg Thr Asn Val Arg Trp Asp
20 25 30
His Glu Ser Val Cys Lys Tyr Tyr Leu Cys Gly Phe Cys Pro Ala
35 40 45
Glu Leu Phe Thr Asn Thr Arg Ser Asp Leu Gly Pro Cys Glu Lys
50 55 60
Ile His Asp Glu Asn Leu Arg Lys Gln Tyr Glu Lys Ser Ser Arg
65 70 75
Phe Met Lys Val Gly Tyr Glu Arg Asp Phe Leu Arg Tyr Leu Gln
80 85 90
Ser Leu Leu Ala Glu Val Glu Arg Arg Ile Arg Arg Gly His Ala
95 100 105
Arg Leu Ala Leu Ser Gln Asn Gln Gln Ser Ser Gly Ala Ala Gly
110 115 120
Pro Thr Gly Lys Asn Glu Glu Lys Ile Gln Val Leu Thr Asp Lys
125 130 135
Ile Asp Val Leu Leu Gln Gln Ile Glu Glu Leu Gly Ser Glu Gly
140 145 150
Lys Val Glu Glu Ala Gln Gly Met Met Lys Leu Val Glu Gln Leu
155 160 165
Lys Glu Glu Arg Glu Leu Leu Arg Ser Thr Thr Ser Thr Ile Glu
170 175 180
Ser Phe Ala Ala Gln Glu Lys Gln Met Glu Val Cys Glu Val Cys
185 190 195
Gly Ala Phe Leu Ile Val Gly Asp Ala Gln Ser Arg Val Asp Asp
200 205 210
His Leu Met Gly Lys Gln His Met Gly Tyr Ala Lys Ile Lys Ala
215 220 225
Thr Val Glu Glu Leu Lys Glu Lys Leu Arg Lys Arg Thr Glu Glu

230	235	240
Pro Asp Arg Asp Glu Arg Leu Lys Lys	Glu Lys Gln Glu Arg Glu	
245	250	255
Glu Arg Glu Lys Glu Arg Glu Arg Glu	Arg Glu Glu Arg Glu Arg	
260	265	270
Lys Arg Arg Arg Glu Glu Glu Glu Arg	Glu Lys Glu Arg Ala Arg	
275	280	285
Asp Arg Glu Arg Arg Lys Arg Ser Arg	Ser Arg Ser Arg His Ser	
290	295	300
Ser Arg Thr Ser Asp Arg Arg Cys Ser	Arg Ser Arg Asp His Lys	
305	310	315
Arg Ser Arg Ser Arg Glu Arg Arg Arg	Thr Arg Ser Arg Asp Arg	
320	325	330
Arg Arg Ser Arg Ser His Asp Arg Ser	Glu Arg Lys His Arg Ser	
335	340	345
Arg Ser Arg Asp Arg Arg Arg Ser Lys	Ser Arg Asp Arg Lys Ser	
350	355	360
Tyr Lys His Arg Ser Lys Ser Arg Asp	Arg Glu Gln Asp Arg Lys	
365	370	375
Ser Lys Glu Lys Glu Lys Arg Gly Ser	Asp Asp Lys Lys Ser Ser	
380	385	390
Val Lys Ser Gly Ser Arg Glu Lys Gln	Ser Glu Asp Thr Asn Thr	
395	400	405
Glu Ser Lys Glu Ser Asp Thr Lys Asn	Glu Val Asn Gly Thr Ser	
410	415	420
Glu Asp Ile Lys Ser Glu Gly Asp Thr	Gln Ser Asn	
425	430	

<210> 48
 <211> 180
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3217567

<400> 48
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Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
20 25 30
Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu
35 40 45
Tyr Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu
50 55 60
Arg Gln Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys
65 70 75
Val Val Pro Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro
80 85 90

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Arg	Leu	Lys	Thr	Pro	Pro	Arg	Pro	Gln	Gly	Gln	Arg	Pro	Ala	Pro	
				95					100					105	
Glu	Ser	Arg	Gly	Gly	Phe	Gln	Pro	Phe	Gly	Asp	Thr	Gly	Gly	Phe	
				110					115					120	
His	Phe	Ser	Phe	Gly	Val	Gly	Ala	Phe	Pro	Phe	Gly	Phe	Phe	Thr	
				125					130					135	
Thr	Val	Phe	Asn	Ala	His	Glu	Pro	Phe	Arg	Arg	Gly	Thr	Gly	Val	
				140					145					150	
Asp	Leu	Gly	Gln	Gly	His	Pro	Ala	Ser	Ser	Trp	Gln	Asp	Ser	Leu	
				155					160					165	
Phe	Leu	Phe	Leu	Ala	Ile	Phe	Phe	Phe	Phe	Trp	Leu	Leu	Ser	Ile	
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<210> 49

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3339274

<400> 49

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Gly	Ala	Ile	Gly	Pro	Tyr	Ser	Gln	Ala	Val	Leu	Val	Asp	Arg	Thr	
				20					25					30	
Ile	Tyr	Ile	Ser	Gly	Gln	Ile	Gly	Met	Asp	Pro	Ser	Ser	Gly	Gln	
				35					40					45	
Leu	Val	Ser	Gly	Gly	Val	Ala	Glu	Glu	Ala	Lys	Gln	Ala	Leu	Lys	
				50					55					60	
Asn	Met	Gly	Glu	Ile	Leu	Lys	Ala	Ala	Gly	Cys	Asp	Phe	Thr	Asn	
				65					70					75	
Val	Val	Lys	Thr	Thr	Val	Leu	Leu	Ala	Asp	Ile	Asn	Asp	Phe	Asn	
				80					85					90	
Thr	Val	Asn	Glu	Ile	Tyr	Lys	Gln	Tyr	Phe	Lys	Ser	Asn	Phe	Pro	
				95					100					105	
Ala	Arg	Ala	Ala	Tyr	Gln	Val	Ala	Ala	Leu	Pro	Lys	Gly	Ser	Arg	
				110					115					120	
Ile	Glu	Ile	Glu	Ala	Val	Ala	Ile	Gln	Gly	Pro	Leu	Thr	Thr	Ala	
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Ser Leu

<210> 50

<211> 1600

<212> DNA

<213> Homo sapiens

PF-0356-3 DIV

<220>

<221> misc_feature

<223> Incyte ID No: 000133

<400> 50

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gttcgattga gtgaaacaga cttcaaagtt atggcaagag atgagttaat tctaagatgg 180
aaacaatatg aagcatatgt acaagctttg gagggcaagt acacagatct taactctaata 240
gatgtaactg gcctaagaga gtctgaagaa aaactaaagc aacaacagca ggagtctgca 300
cgcagggaaa acatccttgt aatgcgacta gcaaccaagg aacaagagat gcaagagtgt 360
actactcaaa tccagtacct caagcaagtc cagcagccga gcgttgccca actgagatca 420
acaatggtag acccagcgat caacttgttt ttcctaaaaa tgaaagggtga actggaacag 480
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aggtaaacia atcatactcc ccagtcagaa cttccctgac agtcccacta cgagaaagct 600
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aagccacatt cttacactgt ccagcttgta atgggttaat taaaacttac cagatgaacc 720
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<210> 51

<211> 1033

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 001762

<400> 51

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taatgctaac gctagcaagt aaactgaagc gtgacgatgg tctcaaaggg tcccggacgg 180
cagccacagc gtccgactcg actcggaggg tttctgtgag agacaaattg cttgttaaag 240
aggttgcaga acttgaagct aatttacctt gtacatgtaa agtgcatttt cctgatccaa 300
acaagcttca ttgttttcag ctaacagtaa ccccagatga gggttactac cagggtggaa 360
aatttcagtt tgaaactgaa gttcccgatg cgtacaacat ggtgcctccc aaagtgaat 420
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gcctgaccaa gatctggcac cccaacatca cagagacagg ggaaatatgt ctgagtttat 480
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tttggggatt aaactctttg tttactgata ttttgaattt tgatgatcca ctgaatattg 600
aagctgcaga acatcatttg cgggacaagg aggacttccg gaataaagtg gatgactaca 660
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<210> 52

<211> 1837

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 001847

<400> 52

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taataaagtt ttaagagaat tagtgaaaca taaactcata gcttgggagc gtacaaaaac 240
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gacaaaacag caaaaatcag ctgtcagacg tcgattgcag aaaggagaag caaatatatt 1620
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taaaccctcc tttcatctat aaaaaaaaaa aaaaaaa 1837

<210> 53

<211> 2031

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 009337

<400> 53

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ttaccccgga agagtgggga ctgctggacc tcaaacagaa gtccctgtac agggaagtga 180
tgctggagaa ctacaggaac ctggtctcag tggaacatca gctttccaaa ccagatgtgg 240
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cccggaatgc ccagatccag gccctatatg ctgaagatgg aagcctgagt gcagatgccc 480
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aaatgtggaa aggccttcac ccagagctca caccttattg ggcaccagag aaccacacaat 1980
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<210> 54

PF-0356-3 DIV

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 009476

<400> 54

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<210> 55

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 010370

<400> 55

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<210> 56

<211> 872

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 030137

<220>

<221> unsure

<222> 838

<223> a, t, c, g, or other

<400> 56

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<210> 57
<211> 691
<212> DNA
<213> Homo sapiens

<220>
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<210> 58
<211> 1994
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 098974

<400> 58
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<210> 59

<211> 1594

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 118160

<400> 59

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PF-0356-3 DIV

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aaaaataaag aaattgtaga cgcctcgggg acat 1594

<210> 60

<211> 1460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 140516

<400> 60

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<210> 61

<211> 1594

<212> DNA

<213> Homo sapiens

PF-0356-3 DIV

<220>

<221> misc_feature

<223> Incyte ID No: 207452

<400> 61

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<210> 62

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 208836

<400> 62

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cgacgaaggc tgcactgtgg ttcgaccgga aaagaagcgg gtgaccaca atccaatgat 360
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PF-0356-3 DIV

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<210> 63

<211> 1309

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 569710

<220>

<221> unsure

<222> 89

<223> a, t, c, g, or other

<400> 63

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PF-0356-3 DIV

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<211> 76
<212> DNA
<213> Homo sapiens

<220>
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<210> 65
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
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PF-0356-3 DIV

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<211> 1892
<212> DNA
<213> Homo sapiens

<220>
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<210> 67
<211> 843
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PF-0356-3 DIV

<223> Incyte ID No: 691768

<220>

<221> unsure

<222> 688, 693, 730, 738, 778, 789

<223> a, t, c, g, or other

<400> 67

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<210> 68

<211> 1643

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 724157

<400> 68

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PF-0356-3 DIV

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<210> 69

<211> 2029

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 864683

<400> 69

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PF-0356-3 DIV

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<210> 70

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 933353

<400> 70

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<210> 71

<211> 1139

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1404643

<400> 71

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tgatcacacc ttttcagttg tacttcaatc ctgaattaat ctttaaacac tttcaaatat 180
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cagactttgt atttatgttc ctttttgggt gattcttaat gacctttttt ggtctgtttg 360
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PF-0356-3 DIV

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<210> 72

<211> 1406

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1561587

<400> 72

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<210> 73

<211> 2028

PF-0356-3 DIV

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1568361

<220>

<221> unsure

<222> 2, 4, 6-7, 15, 18-19, 41, 59, 70, 74, 95, 97, 119, 127, 131, 152, 158, 889

<223> a, t, c, g, or other

<400> 73

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<210> 74

PF-0356-3 DIV

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1572888

<400> 74

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<210> 75

<211> 2028

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1573677

<400> 75

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<210> 76

<211> 1170

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1574624

<220>

<221> unsure

<222> 953, 962

<223> a, t, c, g, or other

<400> 76

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tagcctttga ttggtcagct tgactggcga cctttccct ctgcgacagt ttcccgaggt 120
acctagtgtc tgagcggcac agacgagatc tcgatcgaag gcgagatggc ggacgtgcta 180
gatcttcacg aggctggggg cgaagatttc gccatggatg aggatgggga cgagagcatt 240
cacaaactga aagaaaaagc gaagaaacgg aagggtcgcg gctttggctc cgaagagggg 300
tcccagagcg ggatgcgtga ggattatgac agcgtggagc aggatggcga tgaacccgga 360
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PF-0356-3 DIV

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gaagaagaca tacacgacaa attcgcagaa tatggggaaa ttaaaaacat tcatctcaac 480
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gaagcccagg ctgctatgga gggactcaat ggccaggatt tgatgggaca gcccatcagc 600
gttgactggg gttttgttcg ggggccacca aaaggcaaga ggagaggtgg ccgaagacgc 660
agcagaagtc cagaccggag acgtcgtctga caggctctct gttgtccagg tgttctcttc 720
aagattccat ttgaccatgc agccttggac aaataggact ggggtggaac ttgctgtgtt 780
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<210> 77

<211> 1107

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1577239

<400> 77

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agtgggcctg gacgagctgc ggcggctcgg ggtgctctac tggaagctgg atgctgacaa 180
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tctctttgct tttagaggat agccttgagg ctagattatc tttcctttgt aagattattt 720
gatcagaata ttttgtaatg aaaggatcta gaaagcaact tggaagtgtg aagagtcacc 780
ttcattttct gtaactcaat caagactggg ggtccatgg ccctgtgtta gttcatgcat 840
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atagaagaca cttttttctc caaaatgatg ccttgggggtg gggagtggta gggggaagag 1020
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aactgcctta atcttatact catggct 1107
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<210> 78

<211> 1075

<212> DNA

<213> Homo sapiens

<220>

PF-0356-3 DIV

<221> misc_feature

<223> Incyte ID No: 1598203

<400> 78

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ccggaaaatg gcggtctgcca ggcccagcct gggccgagtc ctcccaggat cctctgtcct 180
gttcctgtgt gacatgcagg agaagttccg ccacaacatc gcctaattcc cacagatcgt 240
ctcagtgggt gcccgcatgc tcaagggtggc ccggctgctt gaggtgccag tcatgctgac 300
ggagcagtag ccacaaggcc tgggccccac ggtgcccgag ctggggactg agggccttcg 360
gccgtggcc aagacctgct tcagcatggt gcctgccttg cagcaggagc tggacagtcg 420
gccccagctg cgctctgtgc tgctctgtgg cattgaggca caggcctgca tcttgaacac 480
gacctggac ctcttagacc gggggctgca ggtccatgtg gtggtggacg cctgctcctc 540
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ctccaccagc gaagggtctc ttctgcagct tgtggcgat gccgtccacc cccagttcaa 660
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tggaggcggg gctcgcccc gggccacttc acggggcggg aaggggaggg gaagaagagt 1020
ctcagactgt gggacacgga ctgcgagaat aaacatatat gtggcaaaaa aaaaa 1075
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<210> 79

<211> 1830

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1600438

<400> 79

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tgccgtgct gctgcacgaa tcgtcgcagc cccagcctt gcgcgtcgtc gctacctcct 120
cggacagaaa ttttatgaat aagcatcaga agccagtgt aacaggccag cggttcaaaa 180
ctcgaaaaag ggatgaaaaa gagaaattcg aaccacagt cttcagggat acacttgctc 240
aggggcttaa tgaggctggt gatgaccttg aagctgtagc caaatttctg gactctacag 300
gctcaagatt agattatcgt cgctatgcag acacactct cgatatcctg gtggctggca 360
gtatgcttgc ccctggagga acgcgcatag atgatggtga caagaccaag atgaccaacc 420
actgtgtgtt ttcagcaaat gaagatcatg aaaccatccg aaactatgct caggcttca 480
ataaactcat caggagatat aagtatttgg agaaggcatt tgaagatgaa atgaaaaagc 540
ttctcctctt ccttaaagcc ttttccgaaa cagagcagac aaagtggcg atgctgctcg 600
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cagaaaaaga tgccaactct gttacctcgt ctttgagaaa agccaactta gacaagaggc 780
tgcttgaact ctttccagtt aacagacaga gtgtggatca ttttgctaaa tacttactg 840
acgcaggct taaggagctt tccgacttcc tccgagtcca gcagtccctg ggcaccagga 900
aggaactgca gaaggagctc caggagcgtc tttctcagga atgcccgatc aaggaggtgg 960
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PF-0356-3 DIV

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taaaataaat ggctttttta gaaaaaaaaa 1830
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<210> 80

<211> 1330

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1600518

<400> 80

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gctgtcatga aggacgtacc gggcttccta cagcagagcc agagctccgg gcccgggcag 120
cccgtgtgt ggcaccgtct ggaggagctc tacacgaaga agttgtggca tcagctgaca 180
cttcagggtgc ttgattttgt gcaggatccg tgctttgccc aaggagatgg tctcattaag 240
ctttatgaaa actttatcag tgaatttgaa cacagggtga atcctttgtc cctcgtggaa 300
atcattcttc atgtagttag acagatgact gatcctaata tggtctctac ttttctggaa 360
aagactcgtg agaaggtgaa aagtagtgat gaggcagtga tctgtgtaa aacagcaatt 420
ggagctctaa aattaaacat cggggaccta caggttacaa aggaaacaat tgaagatgtt 480
gaagaaatgc tcaacaacct tcctggtgtg acatcggttc acagtcgttt ctatgatctc 540
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tttttgggct gtgttgacat caaggatcta ccagtgtctg agcagcagga gagagccttc 660
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acagaatggt 1330
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<210> 81

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<211> 1152

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1602473

<400> 81

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tgggtgaagg agcatcacgg gaagtctggc cttaccaagg cagtgaagga gagtacaatt 480
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<210> 82

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1605720

<400> 82

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tgaagtttga aaagaaatct cagtctgaga aggcagcagg ctcggtgtcc aagagcacgc 180
agtttgagta cgcctggtgc ctggtgcgga gcaagtacaa tgatgacatc cgtaaaggca 240
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tctacctggc cgtggggaac taccggctca aggaatacga gaaggcctta aagtacgtcc 360
gcgggttgct gcagacagag cccagaaca accaggccaa ggaactggag cggctcattg 420
acaaggccat gaagaaagat ggactcgtgg gcatggccat cgtgggaggc atggccctgg 480
gtgtggcggg acttgccgga ctcatcggaac ttgctgtgtc caagtccaaa ttctgaagga 540
gacgcggggg cccacggaga acgctc 566
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<210> 83
<211> 745
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1610501

<400> 83
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gcccagggtg gtggtcaaag ctctgatga agaaaccctg attgcattat tggcccatgc 480
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<210> 84
<211> 909
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1720770

<400> 84
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aaaaaaaaa 909

PF-0356-3 DIV

<210> 85
<211> 2028
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1832295

<400> 85
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gagtggactg caatcattcc aaattcccag ctaattgtca ttccataccc tcacaatgtc 1680
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gaaaagaaag cagatgatag agaaaaacga caagaagccc accggtttca ttttgatgct 1860
atgtgacttg cttttaatat tacataatgg aatggctgtt cacttgatta gttgaaacac 1920
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<210> 86
<211> 372
<212> DNA
<213> Homo sapiens

PF-0356-3 DIV

<220>

<221> misc_feature

<223> Incyte ID No: 1990522

<400> 86

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gagaacgaaa aa 372
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<210> 87

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2098087

<400> 87

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<210> 88

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2112230

<400> 88

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```

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caaggcaaaa caagtcaaac ttggcatgga gggatagcca ccatttttca gagtcctggc 360
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<210> 89

<211> 748

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2117050

<400> 89

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<210> 90

<211> 1078

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> Incyte ID No: 2184712

<400> 90

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<210> 91

<211> 1446

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<400> 91

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gattgaaaat ggaagaccga gaaatcctgc aggacggact ggactggtgg gccgggggct 540
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<210> 92

<211> 659

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2353452

<400> 92

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gttgtgtgtg tttccttttg tatattcttg aaacatggct acacacaccc ttgcatcttc 480
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<210> 93

<211> 1572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2469611

<220>

<221> unsure

<222> 1492, 1500, 1566

<223> a, t, c, g, or other

<400> 93

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<210> 94

<211> 3520

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2515476

<400> 94

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<210> 95

<211> 1904

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PF-0356-3 DIV

<223> Incyte ID No: 2754573

<220>

<221> unsure

<222> 32-33

<223> a, t, c, g, or other

<400> 95

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<210> 96

<211> 1621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2926777

<400> 96

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<210> 97

<211> 1112

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<220>

<221> unsure

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<223> a, t, c, g, or other

<400> 97

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aatatatgtt tggagactgc tcgggaagct gtggtcagtg tgtgtggcca cctgtactgt 240
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<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<220>

<221> unsure

<222> 8

<223> a, t, c, g, or other

<400> 98

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